



## IES INDOOR REPORT

PHOTOMETRIC FILENAME : 4DR-TL-L10-835-DIM-UNV-AWW-OF-CS-MWT\_.IES

### DESCRIPTION INFORMATION (From Photometric File)

IESNA:LM-63-2002  
 [TEST] GEN FROM 12316380.17  
 [TESTLAB] UL Verification Services Inc.  
 [ISSUEDATE] 16 FEB 2024  
 [MANUFAC] WILLIAMS INDOOR  
 [OTHER] H.E. WILLIAMS, INC. - CARTHAGE, MO.  
 [LUMCAT] 4DR-TL-L10-835-DIM1-UNV-AWW-OF-CS-MWT  
 [LUMINAIRE] Black formed aluminum housing, white reflector, clear glas  
 [MORE] s patterned enclosure  
 [LAMP] One white LED  
 [\_SEARCH\_SOURCETYPE] LED  
 [\_SEARCH\_APPLICATION] Indoor, Classroom, Commercial, Corridor, Hotel, Industrial, Office, Downlight  
 [\_SEARCH\_MOUNTING] Recessed

### CHARACTERISTICS

Lumens Per Lamp	N.A. (absolute)
Total Lamp Lumens	N.A. (absolute)
Luminaire Lumens	509
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	57
Total Luminaire Watts	9
Ballast Factor	1.00
CIE Type	Direct
Spacing Criterion (0-180)	0.88
Spacing Criterion (90-270)	0.88
Spacing Criterion (Diagonal)	0.82
Basic Luminous Shape	Circular
Luminous Length (0-180)	0.35 ft (Diameter)
Luminous Width (90-270)	0.35 ft (Diameter)
Luminous Height	0.00 ft

### LUMINANCE DATA (cd/sq.m)

Angle In Degrees	Average 0-Deg	Average 45-Deg	Average 90-Deg
45	17554	16330	14160
55	17030	15056	11470
65	14022	11560	7597
75	10626	7647	3955
85	5912	2554	1460

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**CANDELA TABULATION**

	<u>0.0</u>	<u>22.5</u>	<u>45.0</u>	<u>67.5</u>	<u>90.0</u>	<u>112.5</u>	<u>135.0</u>	<u>157.5</u>	<u>180.0</u>
0.0	431.405	431.405	431.405	431.405	431.405	431.405	431.405	431.405	431.405
0.5	432.949	433.995	432.152	430.757	429.911	429.911	430.508	431.754	431.006
1.0	433.248	434.841	432.899	431.106	429.811	429.313	429.512	430.359	429.662
1.5	433.646	435.240	433.297	431.455	429.961	428.566	428.466	428.865	427.819
2.0	434.592	435.588	433.796	431.654	429.861	428.018	427.172	427.172	425.677
2.5	434.692	436.186	434.144	431.853	429.761	427.620	426.076	425.478	423.536
3.0	435.140	436.535	434.592	432.052	429.761	426.873	424.681	423.685	421.046
3.5	435.439	436.634	434.692	432.650	429.413	425.976	423.237	421.793	418.854
4.0	434.941	436.883	434.941	432.750	429.463	425.428	421.892	420.099	416.812
4.5	434.991	436.784	435.290	432.949	429.562	424.980	420.548	418.456	414.621
5.0	436.037	436.933	435.688	433.248	429.363	424.482	419.551	417.111	412.579
5.5	436.585	437.132	435.788	433.696	429.413	424.233	418.605	415.866	411.035
6.0	437.581	437.182	435.838	433.796	429.612	423.884	417.559	414.720	409.491
6.5	437.780	437.332	435.788	433.497	429.463	423.486	416.663	413.525	408.445
7.0	437.830	437.132	435.688	433.497	429.463	423.088	415.816	412.579	407.300
7.5	438.527	436.784	435.638	433.248	429.114	422.490	415.169	411.832	406.353
8.0	439.075	436.435	435.339	432.849	428.715	421.942	414.372	410.836	405.307
8.5	439.324	436.087	435.240	432.750	428.466	421.444	413.924	409.889	404.262
9.0	439.125	435.738	434.841	432.501	427.919	421.046	413.575	409.292	403.365
9.5	439.224	435.439	434.443	432.152	427.321	420.647	413.077	408.794	402.767
10.0	438.826	434.592	434.194	431.654	426.873	420.050	412.479	408.296	402.120
10.5	437.979	433.547	433.347	430.907	425.877	419.203	411.981	407.499	401.572
11.0	437.083	432.202	432.102	430.210	424.831	418.406	411.433	406.752	400.825
11.5	436.435	430.160	430.807	429.014	423.685	417.510	410.537	405.806	399.929
12.0	435.041	428.168	429.114	427.470	422.291	416.215	409.740	404.959	398.833
12.5	433.347	425.827	426.773	425.727	420.597	414.770	408.146	403.614	397.239
13.0	431.405	422.988	424.233	423.536	418.356	412.679	406.503	402.120	395.048
13.5	429.114	419.850	421.195	420.946	415.717	410.388	404.710	399.978	392.010
14.0	426.574	416.215	417.858	417.709	412.928	407.549	402.319	397.389	388.324
14.5	423.237	412.280	414.073	413.824	409.790	404.560	399.381	394.251	384.091
15.0	419.551	407.648	409.840	410.138	406.005	401.074	395.994	390.715	379.808
15.5	415.816	402.668	405.158	405.955	402.020	397.389	392.358	386.930	374.927
16.0	411.832	396.940	400.377	401.323	397.787	393.255	388.175	382.647	369.946
16.5	407.100	391.113	394.849	396.392	393.305	389.121	383.742	377.965	364.817
17.0	401.921	385.037	389.171	391.263	388.324	384.439	379.210	373.184	359.587
17.5	396.094	377.965	383.045	385.485	383.145	379.559	374.329	368.153	354.407
18.0	389.669	370.594	376.421	379.061	377.716	374.279	369.199	363.123	349.576
18.5	382.597	362.824	369.150	372.486	371.988	368.851	363.621	357.894	344.347
19.0	374.130	353.959	361.231	365.414	365.613	363.173	357.844	352.415	339.167
19.5	364.767	344.795	352.714	357.894	358.691	356.848	351.917	347.136	333.539
20.0	355.155	334.735	343.351	349.975	351.270	350.124	345.692	341.359	328.011
20.5	344.845	324.326	333.689	341.409	343.401	343.102	339.317	335.382	322.284
21.0	333.838	313.319	323.579	332.444	335.083	335.781	332.643	329.356	316.108
21.5	325.372	301.565	312.572	322.732	326.168	327.812	325.571	323.031	309.683
22.0	313.867	289.911	301.316	312.373	316.755	319.345	318.100	316.357	303.159
22.5	302.013	278.008	289.512	301.615	306.595	310.629	310.181	309.584	296.286
23.0	290.010	266.104	277.460	290.309	296.236	301.216	301.764	302.462	288.965
23.5	277.808	254.351	265.357	278.805	285.428	291.505	293.098	295.290	281.494
24.0	265.507	242.447	253.504	267.051	274.571	281.394	284.233	287.670	273.625
24.5	253.305	231.391	241.601	254.898	263.465	270.786	275.119	280.050	265.557
25.0	241.103	220.484	229.946	242.945	252.209	260.277	265.806	272.081	257.040
25.5	228.950	210.025	218.790	231.391	240.953	249.420	256.442	263.863	248.524
26.0	217.047	200.413	208.182	220.135	229.648	238.563	246.880	255.297	239.758
26.5	205.891	191.249	198.271	209.078	218.641	228.154	237.268	246.432	230.594

**IES INDOOR REPORT****PHOTOMETRIC FILENAME : 4DR-TL-L10-835-DIM-UNV-AWW-OF-CS-MWT\_.IES****CANDELA TABULATION - (Cont.)**

27.0	195.731	183.031	188.908	198.869	207.983	217.794	227.606	237.318	220.882
27.5	186.667	175.361	180.142	189.157	197.673	207.933	218.143	227.755	210.971
28.0	178.399	168.189	172.074	180.043	188.061	198.271	208.829	218.292	200.960
28.5	171.277	162.063	164.703	171.825	179.046	189.207	199.765	208.630	190.701
29.0	165.101	156.435	158.328	164.205	170.729	180.740	191.049	199.167	180.790
29.5	159.822	151.555	152.451	157.282	163.209	172.821	182.881	189.854	171.078
30.0	155.140	147.321	147.371	151.056	156.336	165.301	174.913	180.640	161.565
30.5	151.156	143.436	142.938	145.578	149.961	158.428	167.342	171.974	152.451
31.0	147.471	140.050	138.755	140.697	144.383	152.003	160.320	163.508	143.885
31.5	144.134	137.012	135.219	136.364	139.402	146.126	153.646	155.439	136.215
32.0	141.145	134.322	132.131	132.479	135.019	140.847	147.471	147.969	129.292
32.5	138.307	131.882	129.392	129.143	131.135	135.966	141.594	141.046	123.266
33.0	135.916	129.641	127.001	126.055	127.648	131.583	136.215	134.721	117.787
33.5	133.675	127.748	124.859	123.614	124.660	127.499	131.185	128.894	113.106
34.0	131.583	125.955	122.967	121.273	121.921	123.814	126.453	123.465	108.773
34.5	129.790	124.461	121.323	119.281	119.481	120.477	122.070	118.684	104.938
35.0	128.146	123.017	119.779	117.439	117.339	117.439	118.086	114.351	101.352
35.5	126.702	121.722	118.484	115.795	115.247	114.650	114.201	110.267	98.214
36.0	125.357	120.626	117.239	114.301	113.404	112.159	110.715	106.631	95.226
36.5	124.112	119.630	116.243	113.006	111.611	109.918	107.328	103.394	92.985
37.0	123.017	118.733	115.247	111.860	110.018	107.826	104.240	100.306	90.345
37.5	122.021	117.986	114.351	110.765	108.573	105.934	101.700	97.367	87.855
38.0	121.224	117.289	113.604	109.819	107.179	104.091	99.061	94.529	85.514
38.5	120.327	116.592	112.857	108.872	105.834	102.298	96.571	91.939	83.273
39.0	119.680	115.895	112.159	107.926	104.539	100.804	94.329	89.449	81.181
39.5	119.032	115.297	111.562	107.129	103.294	99.210	92.138	87.257	79.139
40.0	118.484	114.749	111.014	106.382	102.049	97.517	89.996	85.016	77.197
40.5	117.937	114.351	110.566	105.685	100.904	95.873	88.104	82.874	75.254
41.0	117.389	113.902	110.167	105.037	100.107	94.329	86.311	80.783	73.412
41.5	116.741	113.504	109.669	104.390	99.111	92.736	84.418	78.741	71.619
42.0	116.144	113.106	109.221	103.792	98.114	91.192	82.526	76.798	69.875
42.5	115.745	112.657	108.723	103.045	97.168	89.648	80.733	74.906	68.182
43.0	115.446	112.259	108.225	102.348	96.122	88.154	78.890	72.963	66.439
43.5	114.998	111.761	107.627	101.551	95.076	86.659	77.097	71.121	64.646
44.0	114.500	111.263	106.980	100.804	93.931	84.966	75.254	69.278	63.002
44.5	114.102	110.715	106.432	99.907	92.785	83.273	73.461	67.535	61.359
45.0	113.604	110.117	105.685	99.111	91.640	81.629	71.718	65.791	59.666
45.5	113.106	109.420	104.987	98.214	90.445	79.936	70.025	64.048	58.072
46.0	112.558	108.673	104.141	97.318	89.349	78.193	68.381	62.355	56.528
46.5	111.860	107.826	103.344	96.670	88.253	76.499	66.738	60.711	54.934
47.0	111.163	106.880	102.348	95.624	86.859	74.806	65.094	59.018	53.390
47.5	110.267	105.834	101.252	94.429	85.464	73.113	63.451	57.424	51.896
48.0	109.370	104.738	100.107	93.234	83.970	71.419	61.807	55.831	50.402
48.5	108.275	103.493	98.862	91.989	82.426	69.776	60.164	54.287	48.953
49.0	107.179	102.149	97.766	90.644	80.832	68.132	58.570	52.743	47.538
49.5	106.033	100.804	96.620	89.299	79.189	66.489	56.976	51.249	46.149
50.0	104.788	99.409	95.226	88.154	77.595	64.895	55.432	49.804	44.784
50.5	103.543	98.015	93.732	86.659	75.902	63.301	53.888	48.375	43.434
51.0	102.099	96.670	92.238	85.165	74.159	61.708	52.344	46.951	42.100
51.5	100.655	95.027	90.694	83.572	72.465	60.064	50.850	45.556	40.785
52.0	99.061	93.433	89.100	81.978	70.722	58.470	49.331	44.176	39.485
52.5	97.467	91.789	87.755	80.334	68.979	56.877	47.867	42.817	38.190
53.0	95.823	90.096	86.112	78.691	67.236	55.283	46.428	41.487	36.925
53.5	94.429	88.652	84.368	76.948	65.493	53.739	45.003	40.157	35.655
54.0	93.034	86.909	82.625	75.205	63.700	52.145	43.604	38.857	34.400
54.5	91.241	85.116	80.832	73.412	61.957	50.551	42.219	37.572	33.185

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## CANDELA TABULATION - (Cont.)

55.0	89.399	83.323	79.039	71.668	60.213	48.997	40.849	36.327	32.004
55.5	87.556	81.530	77.246	69.826	58.520	47.459	39.520	35.082	30.824
56.0	85.713	79.787	75.454	67.983	56.777	45.930	38.195	33.862	29.678
56.5	83.870	77.994	73.661	66.190	55.034	44.420	36.895	32.682	28.558
57.0	81.978	76.201	71.818	64.347	53.390	42.936	35.620	31.506	27.472
57.5	80.185	74.457	70.075	62.554	51.697	41.497	34.360	30.356	26.401
58.0	78.342	72.664	68.232	60.761	50.004	40.048	33.130	29.225	25.335
58.5	76.549	70.921	66.539	58.968	48.385	38.638	31.900	28.110	24.305
59.0	74.706	69.178	64.746	57.225	46.756	37.234	30.704	27.019	23.264
59.5	72.914	67.435	63.052	55.482	45.158	35.864	29.519	25.943	22.248
60.0	71.170	65.692	61.359	53.739	43.594	34.549	28.349	24.887	21.237
60.5	69.427	63.899	59.666	52.046	42.055	33.234	27.208	23.836	20.231
61.0	67.684	62.156	57.972	50.352	40.541	31.940	26.073	22.800	19.224
61.5	65.941	60.462	56.279	48.649	39.062	30.679	24.982	21.769	18.223
62.0	64.248	58.719	54.586	46.985	37.602	29.429	23.901	20.748	17.237
62.5	62.554	57.026	52.942	45.362	36.158	28.209	22.835	19.747	16.266
63.0	60.861	55.333	51.249	43.748	34.758	27.019	21.789	18.761	15.325
63.5	59.217	53.689	49.620	42.169	33.379	25.843	20.763	17.790	14.398
64.0	57.574	51.996	47.981	40.605	32.014	24.688	19.752	16.824	13.502
64.5	55.880	50.402	46.333	39.062	30.709	23.552	18.771	15.888	12.640
65.0	54.237	48.763	44.714	37.552	29.385	22.437	17.790	14.966	11.809
65.5	52.593	47.175	43.101	36.053	28.110	21.351	16.839	14.075	11.022
66.0	51.000	45.601	41.507	34.589	26.850	20.280	15.907	13.208	10.295
66.5	49.376	44.047	39.948	33.145	25.624	19.234	14.996	12.386	9.597
67.0	47.767	42.543	38.404	31.735	24.424	18.203	14.110	11.584	8.975
67.5	46.193	41.024	36.900	30.371	23.259	17.232	13.248	10.837	8.417
68.0	44.630	39.535	35.416	29.036	22.133	16.281	12.416	10.125	8.128
68.5	43.071	38.075	33.957	27.756	21.037	15.355	11.614	9.448	7.889
69.0	41.542	36.631	32.542	26.496	19.967	14.463	10.847	8.900	7.645
69.5	40.038	35.212	31.143	25.276	18.921	13.592	10.115	8.427	7.401
70.0	38.549	33.807	29.793	24.095	17.900	12.765	9.413	7.994	7.167
70.5	37.109	32.423	28.478	22.945	16.924	11.968	8.761	7.575	6.928
71.0	35.680	31.053	27.208	21.824	15.967	11.211	8.153	7.222	6.694
71.5	34.285	29.723	25.983	20.734	15.046	10.479	7.580	6.988	6.470
72.0	32.926	28.408	24.783	19.663	14.144	9.772	7.057	6.753	6.235
72.5	31.581	27.128	23.612	18.617	13.278	9.099	6.624	6.524	6.006
73.0	30.256	25.868	22.462	17.606	12.436	8.452	6.245	6.290	5.782
73.5	28.961	24.643	21.341	16.610	11.629	7.834	5.892	6.061	5.553
74.0	27.686	23.448	20.245	15.639	10.847	7.237	5.573	5.827	5.324
74.5	26.401	22.287	19.160	14.697	10.095	6.674	5.339	5.598	5.100
75.0	25.171	21.137	18.114	13.776	9.368	6.141	5.125	5.369	4.876
75.5	23.936	20.006	17.078	12.884	8.676	5.643	4.911	5.150	4.667
76.0	22.731	18.926	16.062	12.023	8.009	5.175	4.702	4.931	4.457
76.5	21.560	17.850	15.066	11.181	7.366	4.741	4.492	4.707	4.248
77.0	20.410	16.794	14.085	10.369	6.753	4.363	4.293	4.497	4.044
77.5	19.284	15.763	13.143	9.582	6.166	4.049	4.089	4.283	3.845
78.0	18.198	14.752	12.212	8.825	5.603	3.755	3.895	4.079	3.646
78.5	17.108	13.766	11.311	8.103	5.080	3.486	3.700	3.875	3.456
79.0	16.062	12.800	10.444	7.391	4.572	3.252	3.501	3.671	3.267
79.5	15.016	11.858	9.592	6.719	4.099	3.068	3.317	3.481	3.078
80.0	14.005	10.932	8.776	6.066	3.651	2.899	3.133	3.287	2.899
80.5	13.019	10.021	7.984	5.434	3.237	2.729	2.948	3.103	2.719
81.0	12.028	9.129	7.212	4.836	2.864	2.560	2.769	2.919	2.540
81.5	11.067	8.263	6.475	4.258	2.545	2.396	2.595	2.734	2.366
82.0	10.115	7.396	5.747	3.710	2.271	2.231	2.420	2.555	2.186
82.5	9.169	6.559	5.040	3.187	2.017	2.077	2.251	2.381	2.012

**IES INDOOR REPORT**  
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**CANDELA TABULATION - (Cont.)**

83.0	8.263	5.737	4.363	2.714	1.778	1.922	2.077	2.206	1.843
83.5	7.341	4.931	3.705	2.276	1.584	1.763	1.917	2.037	1.678
84.0	6.450	4.144	3.088	1.922	1.434	1.614	1.758	1.868	1.504
84.5	5.578	3.397	2.510	1.614	1.295	1.469	1.599	1.698	1.345
85.0	4.716	2.699	2.037	1.335	1.165	1.320	1.444	1.534	1.190
85.5	3.905	2.112	1.668	1.086	1.036	1.180	1.295	1.380	1.041
86.0	3.093	1.673	1.325	0.862	0.911	1.041	1.145	1.220	0.887
86.5	2.321	1.275	1.011	0.692	0.792	0.906	1.001	1.071	0.747
87.0	1.599	0.906	0.722	0.573	0.672	0.777	0.862	0.921	0.603
87.5	0.966	0.583	0.473	0.468	0.558	0.652	0.727	0.772	0.468
88.0	0.503	0.319	0.329	0.374	0.448	0.528	0.598	0.637	0.339
88.5	0.359	0.239	0.274	0.314	0.369	0.423	0.473	0.503	0.224
89.0	0.279	0.199	0.229	0.259	0.309	0.349	0.379	0.383	0.100
89.5	0.204	0.154	0.184	0.209	0.249	0.284	0.309	0.304	0.040
90.0	0.125	0.115	0.139	0.164	0.199	0.229	0.244	0.239	0.045
90.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
91.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
91.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
92.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
92.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
93.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
93.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
94.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
94.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
95.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
95.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
96.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
96.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
97.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
97.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
98.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
98.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
99.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
99.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
100.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
100.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
101.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
101.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
102.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
102.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
103.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
103.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
104.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
104.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
105.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
105.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
106.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
106.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
107.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
107.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
108.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
108.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
109.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
109.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
110.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
110.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000

IES INDOOR REPORT  
PHOTOMETRIC FILENAME : 4DR-TL-L10-835-DIM-UNV-AWW-OF-CS-MWT\_.IES

CANDELA TABULATION - (Cont.)

111.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
111.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
112.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
112.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
113.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
113.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
114.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
114.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
115.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
115.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
116.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
116.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
117.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
117.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
118.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
118.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
119.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
119.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
120.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
120.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
121.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
121.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
122.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
122.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
123.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
123.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
124.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
124.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
125.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
125.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
126.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
126.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
127.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
127.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
128.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
128.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
129.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
129.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
130.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
130.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
131.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
131.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
132.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
132.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
133.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
133.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
134.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
134.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
135.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
135.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
136.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
136.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
137.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
137.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
138.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
138.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000

IES INDOOR REPORT  
PHOTOMETRIC FILENAME : 4DR-TL-L10-835-DIM-UNV-AWW-OF-CS-MWT\_.IES

CANDELA TABULATION - (Cont.)

139.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
139.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
140.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
140.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
141.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
141.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
142.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
142.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
143.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
143.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
144.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
144.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
145.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
145.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
146.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
146.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
147.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
147.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
148.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
148.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
149.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
149.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
150.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
150.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
151.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
151.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
152.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
152.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
153.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
153.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
154.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
154.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
155.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
155.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
156.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
156.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
157.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
157.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
158.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
158.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
159.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
159.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
160.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
160.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
161.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
161.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
162.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
162.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
163.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
163.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
164.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
164.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
165.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
165.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
166.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
166.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000

IES INDOOR REPORT  
PHOTOMETRIC FILENAME : 4DR-TL-L10-835-DIM-UNV-AWW-OF-CS-MWT\_.IES

CANDELA TABULATION - (Cont.)

167.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
167.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
168.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
168.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
169.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
169.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
170.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
170.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
171.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
171.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
172.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
172.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
173.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
173.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
174.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
174.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
175.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
175.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
176.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
176.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
177.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
177.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
178.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
178.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
179.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
179.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
180.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000



**IES INDOOR REPORT****PHOTOMETRIC FILENAME : 4DR-TL-L10-835-DIM-UNV-AWW-OF-CS-MWT\_.IES****ZONAL LUMEN SUMMARY**

Zone	Lumens	%Lamp	%Fixt
0-20	151.88	N.A.	29.80
0-30	264.92	N.A.	52.00
0-40	340.77	N.A.	66.90
0-60	462.89	N.A.	90.90
0-80	506.73	N.A.	99.50
0-90	509.16	N.A.	100.00
10-90	468.46	N.A.	92.00
20-40	188.89	N.A.	37.10
20-50	257.32	N.A.	50.50
40-70	153.21	N.A.	30.10
60-80	43.84	N.A.	8.60
70-80	12.76	N.A.	2.50
80-90	2.43	N.A.	0.50
90-110	0.00	N.A.	0.00
90-120	0.00	N.A.	0.00
90-130	0.00	N.A.	0.00
90-150	0.00	N.A.	0.00
90-180	0.00	N.A.	0.00
110-180	0.00	N.A.	0.00
0-180	509.17	N.A.	100.00

Total Luminaire Efficiency = N.A. %

**ZONAL LUMEN SUMMARY**

Zone	Lumens
0-10	40.70
10-20	111.17
20-30	113.05
30-40	75.84
40-50	68.43
50-60	53.69
60-70	31.08
70-80	12.76
80-90	2.43
90-100	0.00
100-110	0.00
110-120	0.00
120-130	0.00
130-140	0.00
140-150	0.00
150-160	0.00
160-170	0.00
170-180	0.00

# IES INDOOR REPORT

PHOTOMETRIC FILENAME : 4DR-TL-L10-835-DIM-UNV-AWW-OF-CS-MWT\_.IES

## COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD

Effective Floor Cavity Reflectance 0.20

RC	80				70				50			30			10			0
RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10	0
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100
1	112	108	105	102	109	106	103	100	102	99	97	98	96	94	94	93	91	89
2	104	98	92	88	102	96	91	87	92	88	85	89	86	83	86	84	81	79
3	97	89	82	77	95	87	81	76	84	79	75	82	78	74	79	76	73	71
4	91	81	74	69	89	80	73	68	77	72	67	75	70	67	73	69	66	64
5	85	74	67	62	83	73	67	61	71	65	61	70	64	60	68	63	60	58
6	80	69	61	56	78	68	61	56	66	60	56	65	59	55	63	58	55	53
7	75	64	57	51	74	63	56	51	62	56	51	60	55	51	59	54	50	49
8	71	60	52	47	69	59	52	47	58	52	47	57	51	47	55	50	47	45
9	67	56	49	44	66	55	49	44	54	48	44	53	48	44	52	47	43	42
10	64	52	46	41	62	52	45	41	51	45	41	50	45	41	49	44	41	39

# IES INDOOR REPORT

PHOTOMETRIC FILENAME : 4DR-TL-L10-835-DIM-UNV-AWW-OF-CS-MWT\_.IES

## UGR TABLE - CORRECTED

### Reflectances

Ceiling Cavity	70	70	50	50	30	70	70	50	50	30
Walls	50	30	50	30	30	50	30	50	30	30
Floor Cavity	20	20	20	20	20	20	20	20	20	20

### Room Size UGR Viewed Crosswise

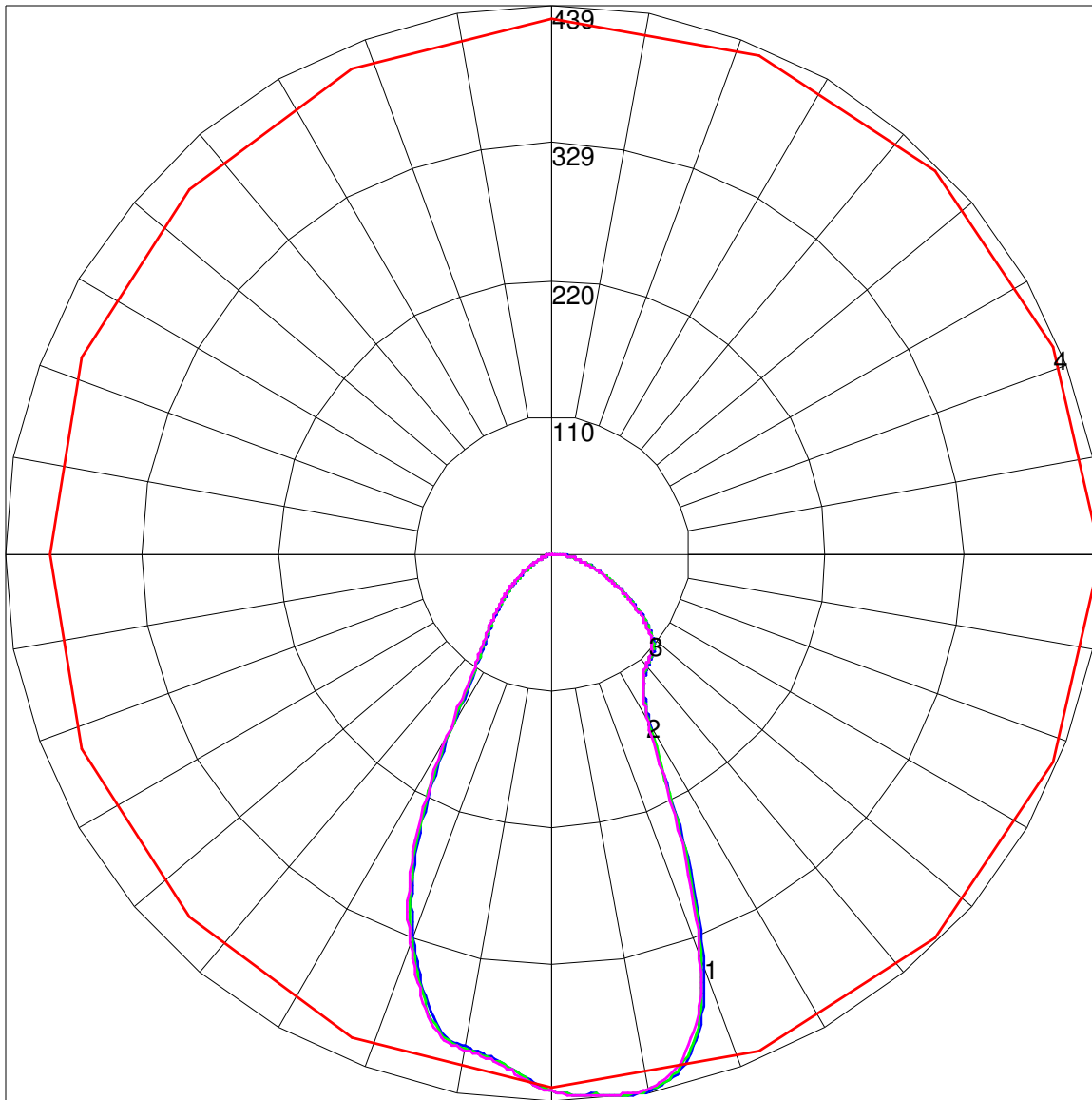
X=2H	Y=2H	20.9	22.2	21.2	22.5	22.8	18.3	19.7	18.7	20.0	20.3
	3H	22.2	23.4	22.6	23.8	24.1	19.2	20.4	19.5	20.7	21.1
	4H	22.7	23.8	23.1	24.2	24.6	19.3	20.4	19.7	20.8	21.2
	6H	23.0	24.0	23.4	24.4	24.8	19.4	20.4	19.8	20.8	21.2
	8H	23.1	24.1	23.5	24.5	24.9	19.3	20.3	19.8	20.7	21.1
	12H	23.1	24.1	23.6	24.4	24.9	19.3	20.2	19.8	20.6	21.1

### UGR Viewed Endwise

4H	2H	21.2	22.3	21.6	22.6	23.0	18.8	19.9	19.2	20.2	20.6
	3H	22.7	23.7	23.2	24.1	24.5	19.8	20.7	20.2	21.1	21.5
	4H	23.3	24.1	23.7	24.5	25.0	20.0	20.8	20.4	21.2	21.7
	6H	23.7	24.4	24.2	24.8	25.3	20.1	20.8	20.5	21.2	21.7
	8H	23.8	24.4	24.3	24.9	25.4	20.1	20.7	20.5	21.2	21.6
	12H	23.8	24.4	24.3	24.9	25.4	20.0	20.6	20.5	21.1	21.6
8H	4H	23.3	24.0	23.8	24.4	24.9	20.1	20.8	20.6	21.2	21.7
	6H	23.8	24.3	24.3	24.8	25.3	20.3	20.8	20.8	21.3	21.8
	8H	24.0	24.4	24.5	24.9	25.4	20.3	20.7	20.8	21.3	21.7
	12H	24.0	24.4	24.5	24.9	25.5	20.2	20.7	20.8	21.2	21.7
12H	4H	23.3	23.9	23.8	24.4	24.9	20.1	20.7	20.6	21.2	21.7
	6H	23.8	24.3	24.3	24.7	25.3	20.3	20.8	20.8	21.2	21.8
	8H	23.9	24.3	24.4	24.8	25.4	20.3	20.7	20.8	21.2	21.8

Maximum UGR = 25.5

POLAR GRAPH



Maximum Candela = 439.324 Located At Horizontal Angle = 0, Vertical Angle = 8.5  
# 1 - Vertical Plane Through Horizontal Angles (0 - 180) (Through Max. Cd.)  
# 2 - Vertical Plane Through Horizontal Angles (5 - 185)  
# 3 - Vertical Plane Through Horizontal Angles (10 - 190)  
# 4 - Horizontal Cone Through Vertical Angle (8.5) (Through Max. Cd.)