



IES INDOOR REPORT

PHOTOMETRIC FILENAME : 75S-4-L100-835-DIM-UNV_.IES

DESCRIPTION INFORMATION (From Photometric File)

IESNA:LM-63-2002

[TEST] GEN FROM BALLABS TEST NO. 19745.0

[TESTLAB] BUILDING ACOUSTICS & LIGHTING LABORATORIES, INC

[ISSUEDATE] 1-SEP-2020

[MANUFAC] WILLIAMS INDOOR

[OTHER] H.E. WILLIAMS, INC - CARTHAGE, MO

[LUMINAIRE] 4' LED STRIP LUMINAIRE

[MORE] WHITE REFLECTOR w/FROSTED ACRYLIC SQUARE LENS

[LUMCAT] 75S-4-L100-835-DIM-UNV

[LAMPCAT] HLM 80 CRI 3500K CCT

[_SEARCH_SOURCETYPE] LED

[_SEARCH_APPLICATION] Indoor, Commercial, Industrial, Manufacturing, Utility, Warehouse, Linear

[_SEARCH_MOUNTING] Surface, Suspended

CHARACTERISTICS

Lumens Per Lamp	N.A. (absolute)
Total Lamp Lumens	N.A. (absolute)
Luminaire Lumens	9640
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	141
Total Luminaire Watts	68.3
Ballast Factor	1.00
CIE Type	Direct
Spacing Criterion (0-180)	1.20
Spacing Criterion (90-270)	1.18
Spacing Criterion (Diagonal)	1.30
Basic Luminous Shape	Rectangular w/Sides
Luminous Length (0-180)	3.72 ft
Luminous Width (90-270)	0.21 ft
Luminous Height	0.08 ft



LUMINANCE DATA (cd/sq.m)

Angle In Degrees	Average 0-Deg	Average 45-Deg	Average 90-Deg
45	34716	28013	26485
55	29432	23483	23733
65	23111	20066	21559
75	15916	16402	19127
85	7111	13914	16767

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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>
0	3252.598	3252.598	3252.598	3252.598	3252.598
5	3280.574	3239.346	3237.874	3230.511	3192.228
10	3224.622	3187.811	3190.756	3181.921	3146.583
15	3134.803	3099.465	3108.300	3099.465	3070.017
20	2984.616	2958.112	2984.616	2971.364	2940.443
25	2799.089	2788.782	2812.341	2810.869	2765.224
30	2594.422	2598.839	2625.343	2625.343	2569.390
35	2344.109	2379.447	2392.699	2397.116	2339.691
40	2071.709	2124.716	2112.937	2136.496	2107.047
45	1805.199	1852.317	1849.372	1892.073	1884.710
50	1532.800	1575.500	1609.366	1681.515	1696.239
55	1253.038	1306.045	1381.139	1488.627	1537.217
60	989.473	1054.260	1182.361	1314.880	1378.194
65	736.215	839.285	999.780	1151.440	1216.227
70	505.043	640.507	812.781	977.694	1054.260
75	320.990	450.564	644.924	809.836	886.403
80	175.219	300.376	506.516	656.704	727.380
85	55.952	184.054	384.304	518.295	584.555
90	0.000	119.267	293.014	418.170	463.815
95	0.000	108.960	273.872	382.832	409.336
100	0.000	103.070	254.730	348.966	372.525
105	0.000	94.236	238.534	322.462	346.021
110	0.000	88.346	222.337	301.848	325.407
115	0.000	80.984	203.195	282.707	304.793
120	0.000	69.204	182.581	256.203	282.707
125	0.000	57.425	164.912	234.116	257.675
130	0.000	47.118	142.826	209.085	225.282
135	0.000	42.700	114.850	181.109	197.306
140	0.000	35.338	89.818	151.660	167.857
145	0.000	27.976	69.204	117.794	133.991
150	0.000	20.614	53.007	89.818	103.070
155	0.000	16.197	42.700	64.787	75.094
160	0.000	0.000	30.921	47.118	53.007
165	0.000	0.000	20.614	33.866	36.811
170	0.000	0.000	0.000	20.614	22.086
175	0.000	0.000	0.000	0.000	0.000
180	0.000	0.000	0.000	0.000	0.000

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ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixt
0-20	1180.76	N.A.	12.20
0-30	2469.87	N.A.	25.60
0-40	3953.78	N.A.	41.00
0-60	6643.73	N.A.	68.90
0-80	8296.63	N.A.	86.10
0-90	8691.31	N.A.	90.20
10-90	8383.99	N.A.	87.00
20-40	2773.02	N.A.	28.80
20-50	4212.29	N.A.	43.70
40-70	3673.17	N.A.	38.10
60-80	1652.9	N.A.	17.10
70-80	669.69	N.A.	6.90
80-90	394.68	N.A.	4.10
90-110	485.64	N.A.	5.00
90-120	663.43	N.A.	6.90
90-130	794.40	N.A.	8.20
90-150	924.39	N.A.	9.60
90-180	948.75	N.A.	9.80
110-180	463.10	N.A.	4.80
0-180	9640.06	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	307.32
10-20	873.44
20-30	1289.11
30-40	1483.91
40-50	1439.27
50-60	1250.68
60-70	983.21
70-80	669.69
80-90	394.68
90-100	265.72
100-110	219.92
110-120	177.78
120-130	130.97
130-140	84.88
140-150	45.10
150-160	18.87
160-170	5.21
170-180	0.28

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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	386	386	386	386	373	373	373	373	349	349	349	327	327	327	307	307	307	298
1	349	333	317	304	337	322	308	296	302	291	281	283	274	266	266	259	253	243
2	317	290	266	247	306	280	259	242	263	246	231	248	233	221	233	222	211	202
3	290	255	227	206	279	247	222	202	232	211	194	219	201	187	207	192	180	171
4	266	226	197	175	255	219	193	172	207	184	166	195	176	160	185	168	155	147
5	244	202	173	151	235	197	169	149	186	162	144	176	156	140	167	149	135	127
6	226	182	153	132	218	177	150	130	168	144	127	160	139	123	152	134	119	112
7	210	166	137	117	202	161	134	115	153	130	112	146	125	109	139	120	106	99
8	195	151	124	104	188	148	121	103	141	117	101	134	113	98	128	109	96	89
9	183	139	112	94	176	136	110	93	130	107	91	124	103	89	118	100	87	80
10	171	128	103	85	166	125	101	85	120	98	83	115	95	81	110	92	79	73

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UGR TABLE - CORRECTED

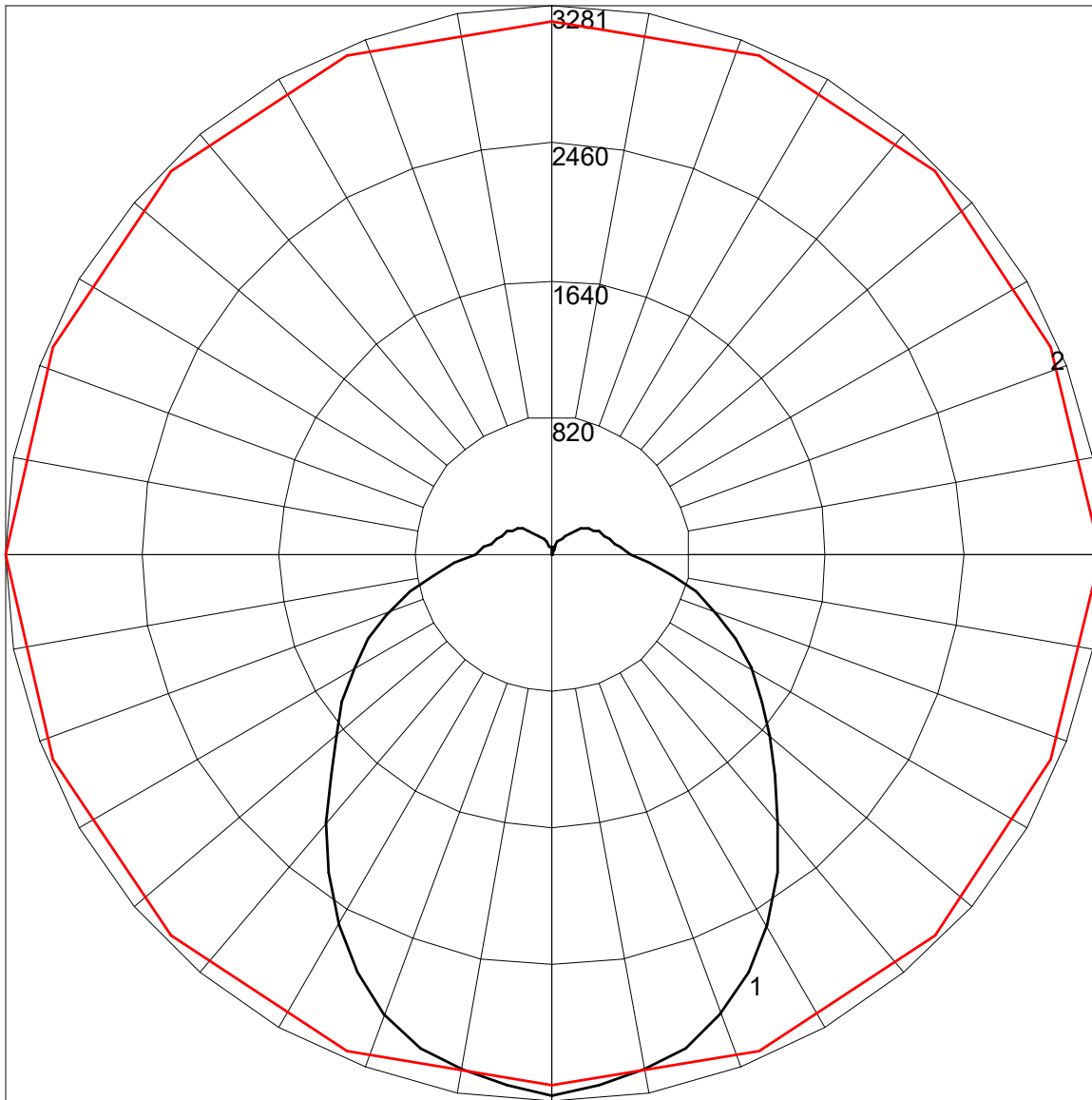
Reflectances

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					UGR Viewed Endwise				
X=2H	Y=2H	16.8	18.2	17.3	18.7	19.3	19.0	20.5	19.6	21.0	21.5
	3H	18.0	19.2	18.5	19.8	20.3	21.4	22.7	22.0	23.2	23.8
	4H	18.3	19.5	18.8	20.0	20.6	22.6	23.8	23.1	24.3	24.9
	6H	18.4	19.6	19.0	20.1	20.7	23.7	24.8	24.3	25.4	26.0
	8H	18.4	19.5	19.0	20.1	20.7	24.3	25.4	24.9	25.9	26.6
	12H	18.4	19.5	19.0	20.0	20.7	24.9	25.9	25.5	26.5	27.2
4H	2H	17.6	18.8	18.1	19.3	20.0	19.4	20.6	19.9	21.1	21.8
	3H	19.0	20.0	19.6	20.6	21.3	22.0	23.0	22.6	23.6	24.2
	4H	19.5	20.4	20.0	21.0	21.6	23.3	24.2	23.9	24.8	25.5
	6H	19.7	20.5	20.3	21.2	21.8	24.6	25.4	25.2	26.0	26.7
	8H	19.8	20.5	20.4	21.2	21.8	25.3	26.1	25.9	26.7	27.4
	12H	19.8	20.5	20.4	21.1	21.8	26.0	26.7	26.6	27.4	28.1
8H	4H	20.1	20.9	20.7	21.5	22.2	23.4	24.2	24.0	24.8	25.5
	6H	20.5	21.2	21.2	21.8	22.5	24.9	25.6	25.6	26.2	26.9
	8H	20.7	21.2	21.3	21.9	22.6	25.7	26.3	26.4	27.0	27.7
	12H	20.7	21.2	21.4	21.9	22.7	26.6	27.1	27.3	27.8	28.6
12H	4H	20.3	21.0	20.9	21.6	22.3	23.4	24.1	24.0	24.8	25.5
	6H	20.8	21.4	21.5	22.0	22.8	24.9	25.5	25.6	26.1	26.9
	8H	21.0	21.5	21.7	22.2	23.0	25.8	26.3	26.4	27.0	27.7

Maximum UGR = 28.6

POLAR GRAPH



Maximum Candela = 3280.574 Located At Horizontal Angle = 0, Vertical Angle = 5
1 - Vertical Plane Through Horizontal Angles (90 - 270)
2 - Horizontal Cone Through Vertical Angle (5) (Through Max. Cd.)