



IES INDOOR REPORT

PHOTOMETRIC FILENAME : 75S-4-L120-835-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-L120-835-DIM-UNV

[LAMPCAT] HLM 80 CRI 3500K CCT

[_SEARCH_SOURCE] 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	11492
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	134
Total Luminaire Watts	85.9
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	41385	33395	31573
55	35086	27994	28292
65	27552	23921	25700
75	18973	19553	22801
85	8477	16587	19988

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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	3877.475	3877.475	3877.475	3877.475	3877.475
5	3910.826	3861.678	3859.922	3851.146	3805.508
10	3844.125	3800.242	3803.753	3793.221	3751.093
15	3737.051	3694.923	3705.455	3694.923	3659.817
20	3558.009	3526.414	3558.009	3542.212	3505.350
25	3336.841	3324.553	3352.638	3350.883	3296.468
30	3092.853	3098.119	3129.714	3129.714	3063.013
35	2794.450	2836.578	2852.376	2857.641	2789.184
40	2469.718	2532.909	2518.867	2546.952	2511.846
45	2152.008	2208.178	2204.667	2255.571	2246.794
50	1827.276	1878.180	1918.552	2004.562	2022.115
55	1493.767	1556.958	1646.479	1774.616	1832.542
60	1179.567	1256.801	1409.512	1567.490	1642.968
65	877.654	1000.526	1191.854	1372.651	1449.884
70	602.071	763.559	968.930	1165.525	1256.801
75	382.657	537.124	768.825	965.419	1056.695
80	208.882	358.083	603.826	782.867	867.122
85	66.702	219.414	458.135	617.868	696.857
90	0.000	142.180	349.306	498.507	552.922
95	0.000	129.893	326.487	456.380	487.976
100	0.000	122.872	303.668	416.008	444.093
105	0.000	112.340	284.360	384.412	412.497
110	0.000	105.318	265.052	359.838	387.923
115	0.000	96.542	242.233	337.019	363.349
120	0.000	82.499	217.658	305.424	337.019
125	0.000	68.457	196.594	279.094	307.179
130	0.000	56.170	170.265	249.254	268.562
135	0.000	50.904	136.914	215.903	235.211
140	0.000	42.127	107.074	180.797	200.105
145	0.000	33.351	82.499	140.425	159.733
150	0.000	24.574	63.191	107.074	122.872
155	0.000	19.308	50.904	77.234	89.521
160	0.000	0.000	36.861	56.170	63.191
165	0.000	0.000	24.574	40.372	43.883
170	0.000	0.000	0.000	24.574	26.330
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	1407.61	N.A.	12.20
0-30	2944.37	N.A.	25.60
0-40	4713.36	N.A.	41.00
0-60	7920.11	N.A.	68.90
0-80	9890.55	N.A.	86.10
0-90	10361.05	N.A.	90.20
10-90	9994.69	N.A.	87.00
20-40	3305.76	N.A.	28.80
20-50	5021.54	N.A.	43.70
40-70	4378.84	N.A.	38.10
60-80	1970.44	N.A.	17.10
70-80	798.34	N.A.	6.90
80-90	470.50	N.A.	4.10
90-110	578.94	N.A.	5.00
90-120	790.88	N.A.	6.90
90-130	947.02	N.A.	8.20
90-150	1101.97	N.A.	9.60
90-180	1131.01	N.A.	9.80
110-180	552.07	N.A.	4.80
0-180	11492.07	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	366.37
10-20	1041.24
20-30	1536.77
30-40	1768.99
40-50	1715.78
50-60	1490.96
60-70	1172.1
70-80	798.34
80-90	470.50
90-100	316.77
100-110	262.17
110-120	211.94
120-130	156.14
130-140	101.19
140-150	53.77
150-160	22.50
160-170	6.21
170-180	0.34

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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	460	460	460	460	445	445	445	445	416	416	416	390	390	390	367	367	367	355
1	416	396	378	362	402	384	367	353	360	346	334	338	327	317	317	309	301	290
2	378	345	318	295	364	334	309	288	314	293	275	295	278	263	278	264	252	241
3	345	303	271	245	332	294	265	241	277	252	231	261	240	223	246	229	214	204
4	317	269	235	208	304	262	230	205	247	219	198	233	210	191	220	201	185	175
5	291	241	206	180	280	234	202	177	222	193	172	210	185	166	199	178	161	152
6	269	217	183	157	259	212	179	155	201	172	151	190	166	147	181	159	142	133
7	250	197	163	139	241	192	160	138	183	155	134	174	149	130	165	144	127	118
8	233	180	147	125	225	176	145	123	168	140	120	160	135	117	152	130	114	106
9	218	166	134	112	210	162	132	111	154	127	108	147	123	106	141	119	103	96
10	204	153	122	102	197	150	120	101	143	117	99	137	113	96	131	110	94	87

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UGR TABLE - CORRECTED

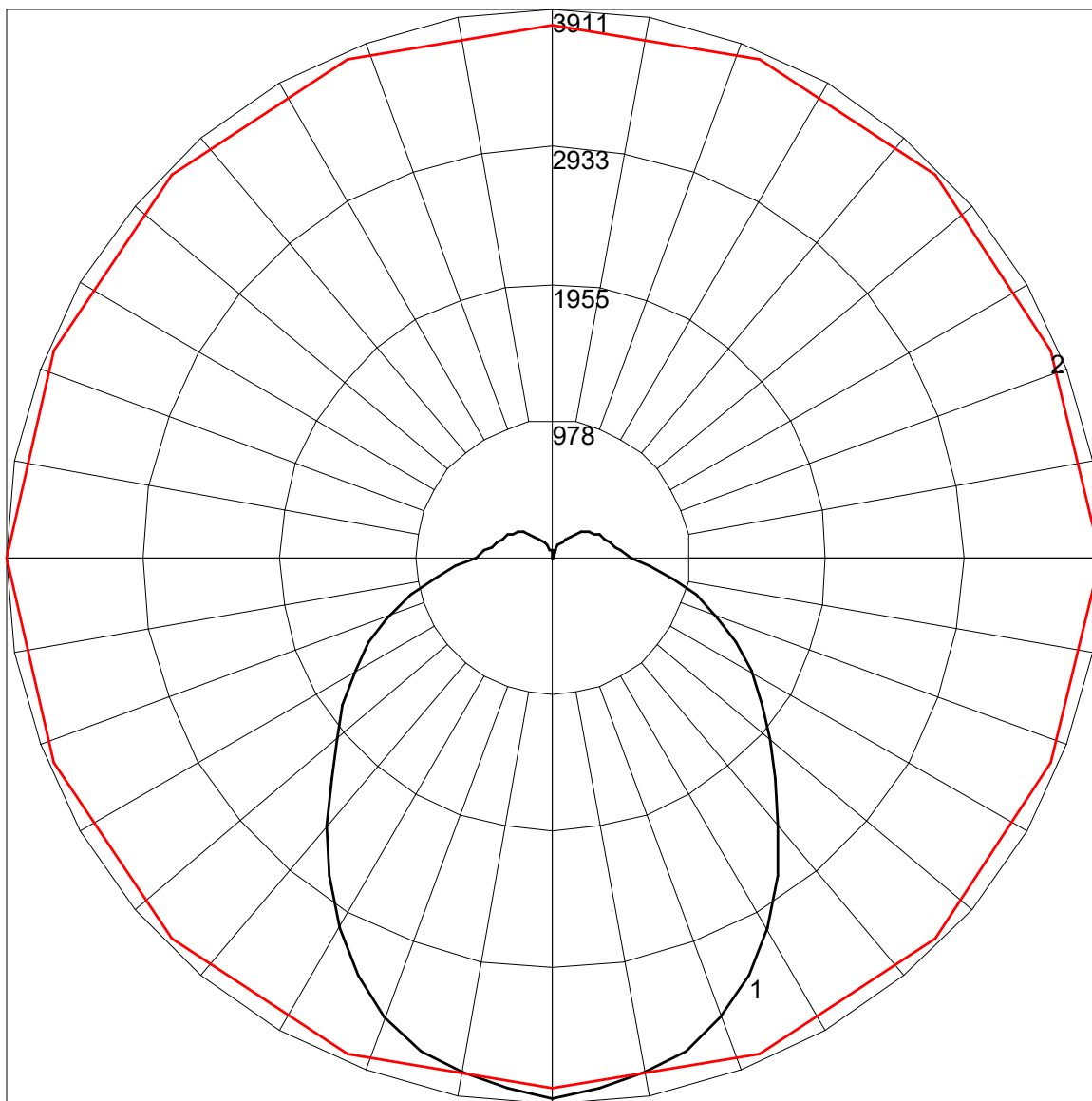
Reflectances

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 = 3910.826 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.)