



IES INDOOR REPORT

PHOTOMETRIC FILENAME : 75S-4-L85-835-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-L85-835-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	8098
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	144
Total Luminaire Watts	56.2
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	29163	23532	22249
55	24724	19727	19937
65	19415	16856	18110
75	13370	13779	16067
85	5973	11688	14085

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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	2732.317	2732.317	2732.317	2732.317	2732.317
5	2755.818	2721.184	2719.947	2713.763	2681.604
10	2708.815	2677.893	2680.367	2672.945	2643.260
15	2633.364	2603.679	2611.100	2603.679	2578.941
20	2507.200	2484.936	2507.200	2496.068	2470.093
25	2351.351	2342.692	2362.483	2361.246	2322.902
30	2179.421	2183.132	2205.396	2205.396	2158.394
35	1969.148	1998.834	2009.966	2013.676	1965.437
40	1740.321	1784.850	1774.954	1794.745	1770.007
45	1516.442	1556.023	1553.549	1589.419	1583.235
50	1287.615	1323.485	1351.934	1412.542	1424.911
55	1052.604	1097.132	1160.214	1250.508	1291.326
60	831.198	885.622	993.232	1104.553	1157.740
65	618.451	705.034	839.856	967.257	1021.681
70	424.257	538.052	682.770	821.303	885.622
75	269.645	378.492	541.763	680.296	744.615
80	147.191	252.328	425.494	551.658	611.030
85	47.002	154.613	322.831	435.390	491.050
90	0.000	100.189	246.143	351.280	389.624
95	0.000	91.531	230.064	321.595	343.859
100	0.000	86.583	213.984	293.146	312.936
105	0.000	79.162	200.378	270.882	290.672
110	0.000	74.214	186.772	253.565	273.355
115	0.000	68.030	170.692	237.485	256.039
120	0.000	58.134	153.376	215.221	237.485
125	0.000	48.239	138.533	196.667	216.458
130	0.000	39.581	119.979	175.640	189.246
135	0.000	35.870	96.478	152.139	165.745
140	0.000	29.686	75.451	127.401	141.007
145	0.000	23.501	58.134	98.952	112.558
150	0.000	17.317	44.528	75.451	86.583
155	0.000	13.606	35.870	54.424	63.082
160	0.000	0.000	25.975	39.581	44.528
165	0.000	0.000	17.317	28.449	30.923
170	0.000	0.000	0.000	17.317	18.554
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	991.89	N.A.	12.20
0-30	2074.79	N.A.	25.60
0-40	3321.34	N.A.	41.00
0-60	5581.01	N.A.	68.90
0-80	6969.51	N.A.	86.10
0-90	7301.06	N.A.	90.20
10-90	7042.89	N.A.	87.00
20-40	2329.45	N.A.	28.80
20-50	3538.5	N.A.	43.70
40-70	3085.61	N.A.	38.10
60-80	1388.5	N.A.	17.10
70-80	562.56	N.A.	6.90
80-90	331.55	N.A.	4.10
90-110	407.96	N.A.	5.00
90-120	557.31	N.A.	6.90
90-130	667.33	N.A.	8.20
90-150	776.52	N.A.	9.60
90-180	796.99	N.A.	9.80
110-180	389.02	N.A.	4.80
0-180	8098.04	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	258.17
10-20	733.72
20-30	1082.9
30-40	1246.54
40-50	1209.05
50-60	1050.63
60-70	825.94
70-80	562.56
80-90	331.55
90-100	223.22
100-110	184.74
110-120	149.35
120-130	110.02
130-140	71.30
140-150	37.89
150-160	15.85
160-170	4.37
170-180	0.24

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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	324	324	324	324	313	313	313	313	293	293	293	275	275	275	258	258	258	250
1	293	279	267	255	283	270	259	249	253	244	236	238	230	224	224	218	212	205
2	267	243	224	208	257	236	218	203	221	207	194	208	196	186	196	186	178	170
3	243	214	191	173	234	207	186	170	195	178	163	184	169	157	173	161	151	144
4	223	190	165	147	215	184	162	144	174	155	139	164	148	135	155	141	130	123
5	205	170	145	127	198	165	142	125	156	136	121	148	131	117	140	125	114	107
6	190	153	129	111	183	149	126	109	141	121	106	134	117	103	127	112	100	94
7	176	139	115	98	170	136	113	97	129	109	94	122	105	92	117	101	89	83
8	164	127	104	88	158	124	102	87	118	99	85	113	95	82	107	92	80	75
9	153	117	94	79	148	114	93	78	109	90	76	104	87	75	99	84	73	68
10	144	108	86	72	139	105	85	71	101	82	69	96	80	68	92	77	66	61

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UGR TABLE - CORRECTED

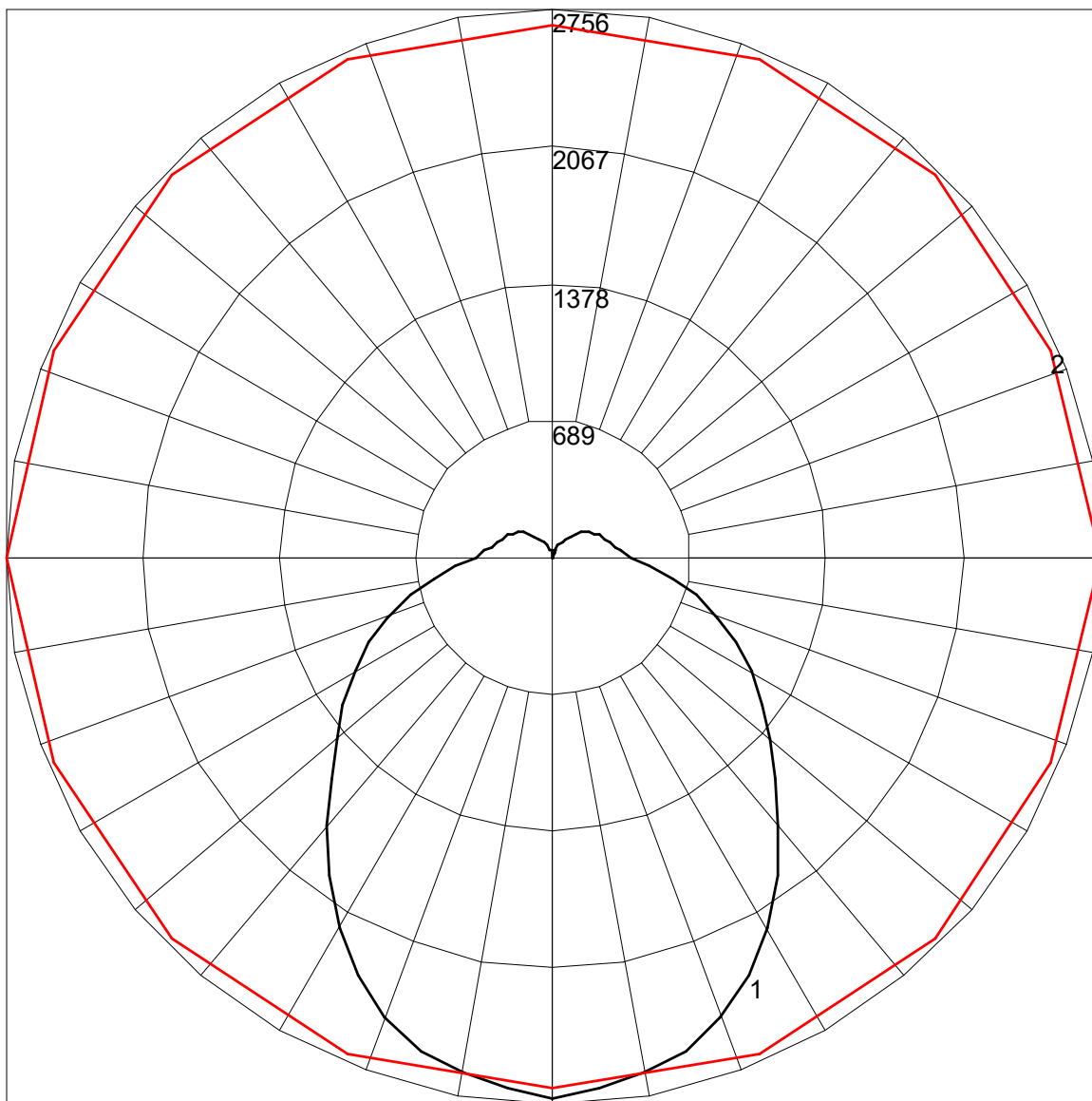
Reflectances

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 = 2755.818 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.)