



IES INDOOR REPORT

PHOTOMETRIC FILENAME : 75S-8-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.64836

[LUMINAIRE] 8'LED STRIP LUMINAIRE

[MORE] WITH FROSTED ACRYLIC LENS

[LUMCAT] 75S-8-L100-835-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	9568
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	145
Total Luminaire Watts	65.9
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)	7.44 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	17414	13983	13140
55	14831	11743	11775
65	11734	10059	10696
75	8212	8253	9489
85	3927	7048	8319

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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	3228.306	3228.306	3228.306	3228.306	3228.306
5	3256.073	3215.153	3213.691	3206.384	3168.387
10	3200.538	3164.003	3166.925	3158.157	3123.082
15	3111.391	3076.317	3085.085	3076.317	3047.088
20	2962.325	2936.019	2962.325	2949.172	2918.482
25	2778.184	2767.954	2791.337	2789.876	2744.571
30	2575.045	2579.429	2605.735	2605.735	2550.201
35	2326.601	2361.676	2374.829	2379.213	2322.217
40	2056.236	2108.848	2097.156	2120.539	2091.311
45	1791.717	1838.483	1835.560	1877.941	1870.634
50	1521.352	1563.733	1597.346	1668.957	1683.571
55	1243.680	1296.291	1370.824	1477.509	1525.736
60	982.083	1046.386	1173.531	1305.060	1367.901
65	730.717	833.017	992.313	1142.841	1207.144
70	501.272	635.723	806.711	970.392	1046.386
75	318.592	447.199	640.108	803.788	879.783
80	173.911	298.132	502.733	651.799	721.948
85	55.534	182.679	381.434	514.424	580.189
90	0.000	118.376	290.825	415.047	460.351
95	0.000	108.146	271.827	379.973	406.278
100	0.000	102.300	252.828	346.360	369.743
105	0.000	93.532	236.752	320.054	343.437
110	0.000	87.686	220.676	299.594	322.977
115	0.000	80.379	201.678	280.595	302.517
120	0.000	68.687	181.218	254.289	280.595
125	0.000	56.996	163.681	232.368	255.751
130	0.000	46.766	141.759	207.523	223.599
135	0.000	42.382	113.992	179.756	195.832
140	0.000	35.074	89.147	150.528	166.603
145	0.000	27.767	68.687	116.915	132.990
150	0.000	20.460	52.612	89.147	102.300
155	0.000	16.076	42.382	64.303	74.533
160	0.000	0.000	30.690	46.766	52.612
165	0.000	0.000	20.460	33.613	36.536
170	0.000	0.000	0.000	20.460	21.921
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	1171.94	N.A.	12.20
0-30	2451.42	N.A.	25.60
0-40	3924.25	N.A.	41.00
0-60	6594.12	N.A.	68.90
0-80	8234.67	N.A.	86.10
0-90	8626.4	N.A.	90.20
10-90	8321.37	N.A.	87.00
20-40	2752.3	N.A.	28.80
20-50	4180.83	N.A.	43.70
40-70	3645.73	N.A.	38.10
60-80	1640.55	N.A.	17.10
70-80	664.68	N.A.	6.90
80-90	391.73	N.A.	4.10
90-110	482.02	N.A.	5.00
90-120	658.47	N.A.	6.90
90-130	788.47	N.A.	8.20
90-150	917.48	N.A.	9.60
90-180	941.66	N.A.	9.80
110-180	459.64	N.A.	4.80
0-180	9568.06	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	305.03
10-20	866.91
20-30	1279.48
30-40	1472.82
40-50	1428.52
50-60	1241.34
60-70	975.87
70-80	664.68
80-90	391.73
90-100	263.74
100-110	218.28
110-120	176.46
120-130	130.00
130-140	84.25
140-150	44.77
150-160	18.73
160-170	5.17
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	202	202	202	202	196	196	196	196	183	183	183	172	172	172	161	161	161	156
1	183	174	166	159	177	169	162	155	158	152	147	149	144	140	140	136	132	128
2	166	152	140	130	160	147	136	127	138	129	121	130	122	116	122	116	111	106
3	152	133	119	108	146	129	116	106	122	111	102	115	106	98	108	101	94	90
4	139	118	103	92	134	115	101	90	109	97	87	102	92	84	97	88	81	77
5	128	106	91	79	123	103	89	78	97	85	76	92	82	73	87	78	71	67
6	118	96	80	69	114	93	79	68	88	76	66	84	73	64	79	70	63	59
7	110	87	72	61	106	85	71	60	80	68	59	76	66	57	73	63	56	52
8	102	79	65	55	99	77	64	54	74	61	53	70	59	51	67	57	50	47
9	96	73	59	49	92	71	58	49	68	56	48	65	54	47	62	52	45	42
10	90	67	54	45	87	66	53	44	63	51	43	60	50	42	58	48	41	38

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UGR TABLE - CORRECTED

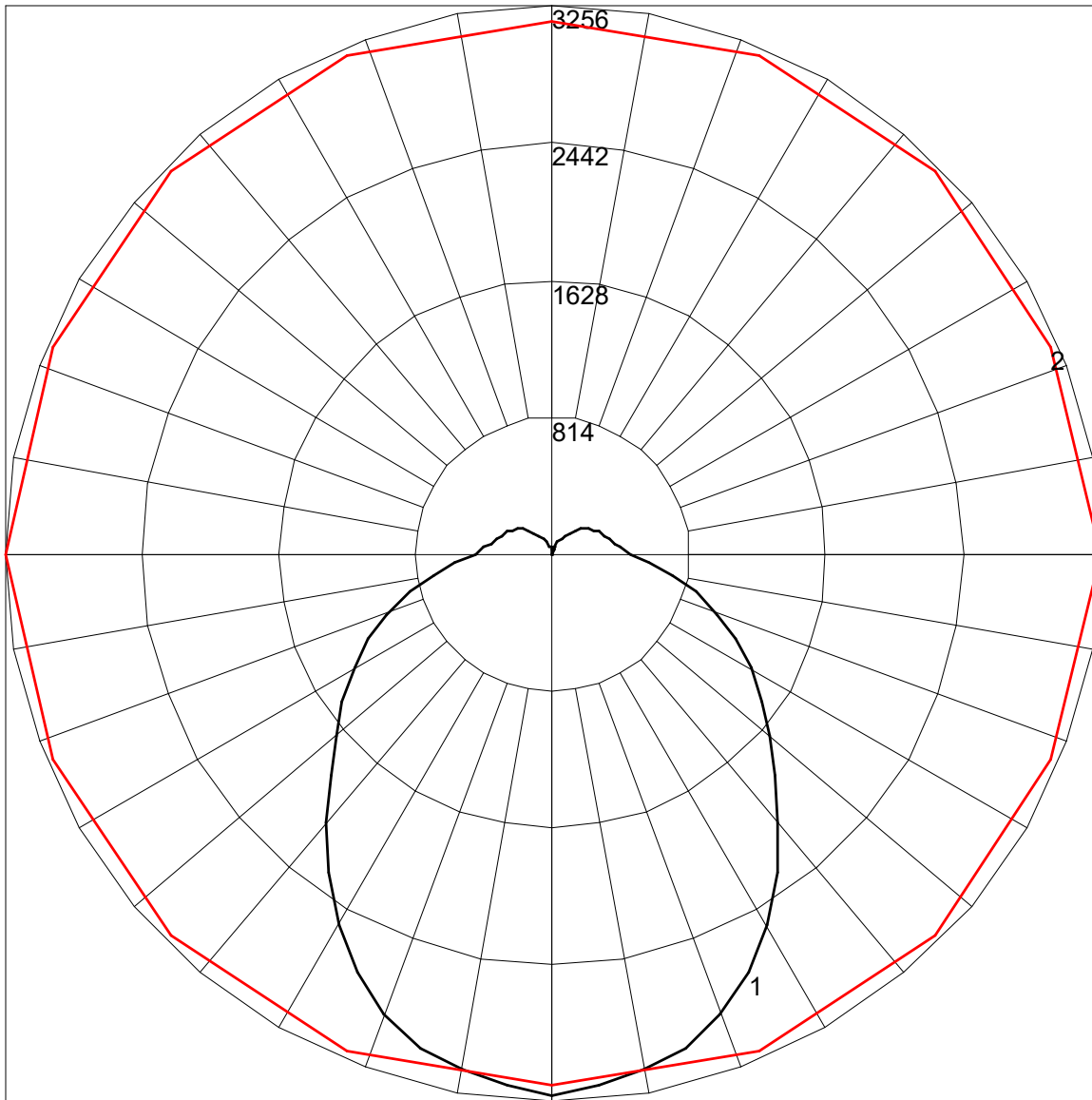
Reflectances

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	16.6	18.0	17.1	18.5	19.1	18.9	20.3	19.4	20.8	21.4
	3H	17.8	19.0	18.3	19.6	20.1	21.3	22.6	21.8	23.1	23.7
	4H	18.1	19.3	18.6	19.8	20.4	22.4	23.6	23.0	24.2	24.8
	6H	18.2	19.4	18.8	19.9	20.5	23.6	24.7	24.2	25.3	25.9
	8H	18.2	19.3	18.8	19.9	20.5	24.2	25.3	24.8	25.8	26.5
	12H	18.2	19.3	18.8	19.8	20.5	24.8	25.9	25.4	26.4	27.1
4H	2H	17.4	18.6	18.0	19.2	19.8	19.2	20.4	19.8	21.0	21.6
	3H	18.8	19.9	19.4	20.4	21.1	21.8	22.9	22.4	23.5	24.1
	4H	19.3	20.2	19.9	20.8	21.5	23.2	24.1	23.7	24.7	25.3
	6H	19.5	20.4	20.1	21.0	21.6	24.5	25.3	25.1	25.9	26.6
	8H	19.6	20.4	20.2	21.0	21.7	25.2	26.0	25.8	26.6	27.3
	12H	19.6	20.3	20.2	20.9	21.6	26.0	26.7	26.6	27.3	28.0
8H	4H	19.9	20.7	20.5	21.3	22.0	23.3	24.1	23.9	24.7	25.4
	6H	20.4	21.0	21.0	21.7	22.3	24.8	25.4	25.4	26.1	26.8
	8H	20.5	21.1	21.1	21.7	22.4	25.6	26.2	26.3	26.9	27.6
	12H	20.5	21.1	21.2	21.7	22.5	26.5	27.1	27.2	27.7	28.5
12H	4H	20.1	20.8	20.7	21.4	22.1	23.3	24.0	23.9	24.6	25.3
	6H	20.6	21.2	21.3	21.9	22.6	24.8	25.4	25.5	26.0	26.8
	8H	20.8	21.4	21.5	22.0	22.8	25.7	26.2	26.3	26.8	27.6

Maximum UGR = 28.5

POLAR GRAPH



Maximum Candela = 3256.073 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.)