



IES INDOOR REPORT

PHOTOMETRIC FILENAME : 75S-8-L106-8TW-DIM-UNV 4000K_.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] 04-NOV-2019

[MANUFAC] WILLIAMS INDOOR

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

[LUMINAIRE] 8' SURFACE MOUNT STRIP LUMINAIRE

[MORE] WHITE REFLECTOR w/FROSTED ACRYLIC SQUARE LENS

[LUMCAT] 75S-8-L106-8TW-DIM-UNV 4000k

[_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	10208
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	118
Total Luminaire Watts	86.5
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	36761	29663	28046
55	31166	24866	25131
65	24473	21249	22829
75	16853	17369	20254
85	7530	14734	17755

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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	3444.244	3444.244	3444.244	3444.244	3444.244
5	3473.869	3430.212	3428.652	3420.856	3380.318
10	3414.620	3375.640	3378.758	3369.403	3331.983
15	3319.509	3282.089	3291.444	3282.089	3250.905
20	3160.472	3132.407	3160.472	3146.439	3113.697
25	2964.015	2953.100	2978.047	2976.488	2928.153
30	2747.288	2751.965	2780.031	2780.031	2720.781
35	2482.226	2519.646	2533.679	2538.357	2477.548
40	2193.776	2249.907	2237.433	2262.380	2231.197
45	1911.563	1961.457	1958.339	2003.555	1995.759
50	1623.114	1668.330	1704.191	1780.592	1796.183
55	1326.868	1382.999	1462.517	1576.338	1627.791
60	1047.774	1116.378	1252.027	1392.354	1459.399
65	779.594	888.737	1058.688	1219.284	1287.889
70	534.801	678.246	860.671	1035.300	1116.378
75	339.903	477.111	682.924	857.553	938.631
80	185.543	318.074	536.360	695.397	770.238
85	59.249	194.898	406.948	548.834	618.997
90	0.000	126.294	310.278	442.809	491.144
95	0.000	115.380	290.009	405.389	433.454
100	0.000	109.143	269.739	369.527	394.474
105	0.000	99.788	252.588	341.462	366.409
110	0.000	93.551	235.437	319.633	344.580
115	0.000	85.755	215.168	299.364	322.752
120	0.000	73.282	193.339	271.299	299.364
125	0.000	60.808	174.629	247.911	272.858
130	0.000	49.894	151.241	221.405	238.556
135	0.000	45.216	121.617	191.780	208.931
140	0.000	37.420	95.110	160.596	177.747
145	0.000	29.625	73.282	124.735	141.886
150	0.000	21.829	56.131	95.110	109.143
155	0.000	17.151	45.216	68.604	79.519
160	0.000	0.000	32.743	49.894	56.131
165	0.000	0.000	21.829	35.861	38.980
170	0.000	0.000	0.000	21.829	23.388
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	1250.33	N.A.	12.20
0-30	2615.4	N.A.	25.60
0-40	4186.74	N.A.	41.00
0-60	7035.19	N.A.	68.90
0-80	8785.48	N.A.	86.10
0-90	9203.41	N.A.	90.20
10-90	8877.98	N.A.	87.00
20-40	2936.4	N.A.	28.80
20-50	4460.48	N.A.	43.70
40-70	3889.59	N.A.	38.10
60-80	1750.29	N.A.	17.10
70-80	709.14	N.A.	6.90
80-90	417.93	N.A.	4.10
90-110	514.26	N.A.	5.00
90-120	702.52	N.A.	6.90
90-130	841.21	N.A.	8.20
90-150	978.85	N.A.	9.60
90-180	1004.65	N.A.	9.80
110-180	490.39	N.A.	4.80
0-180	10208.06	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	325.43
10-20	924.90
20-30	1365.06
30-40	1571.34
40-50	1524.08
50-60	1324.38
60-70	1041.14
70-80	709.14
80-90	417.93
90-100	281.38
100-110	232.88
110-120	188.26
120-130	138.69
130-140	89.88
140-150	47.76
150-160	19.98
160-170	5.51
170-180	0.30

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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	156	156	156	156	151	151	151	151	142	142	142	133	133	133	125	125	125	121
1	142	135	129	123	137	130	125	120	122	118	114	115	111	108	108	105	102	99
2	129	117	108	100	124	114	105	98	107	100	94	100	95	90	95	90	86	82
3	117	103	92	83	113	100	90	82	94	86	79	89	82	76	84	78	73	69
4	108	92	80	71	104	89	78	70	84	75	67	79	71	65	75	68	63	59
5	99	82	70	61	95	80	69	60	75	66	58	71	63	57	68	60	55	52
6	92	74	62	54	88	72	61	53	68	59	51	65	56	50	61	54	48	45
7	85	67	56	47	82	65	55	47	62	53	46	59	51	44	56	49	43	40
8	79	61	50	42	76	60	49	42	57	48	41	54	46	40	52	44	39	36
9	74	56	45	38	71	55	45	38	53	43	37	50	42	36	48	41	35	33
10	69	52	42	35	67	51	41	34	49	40	34	47	38	33	45	37	32	30

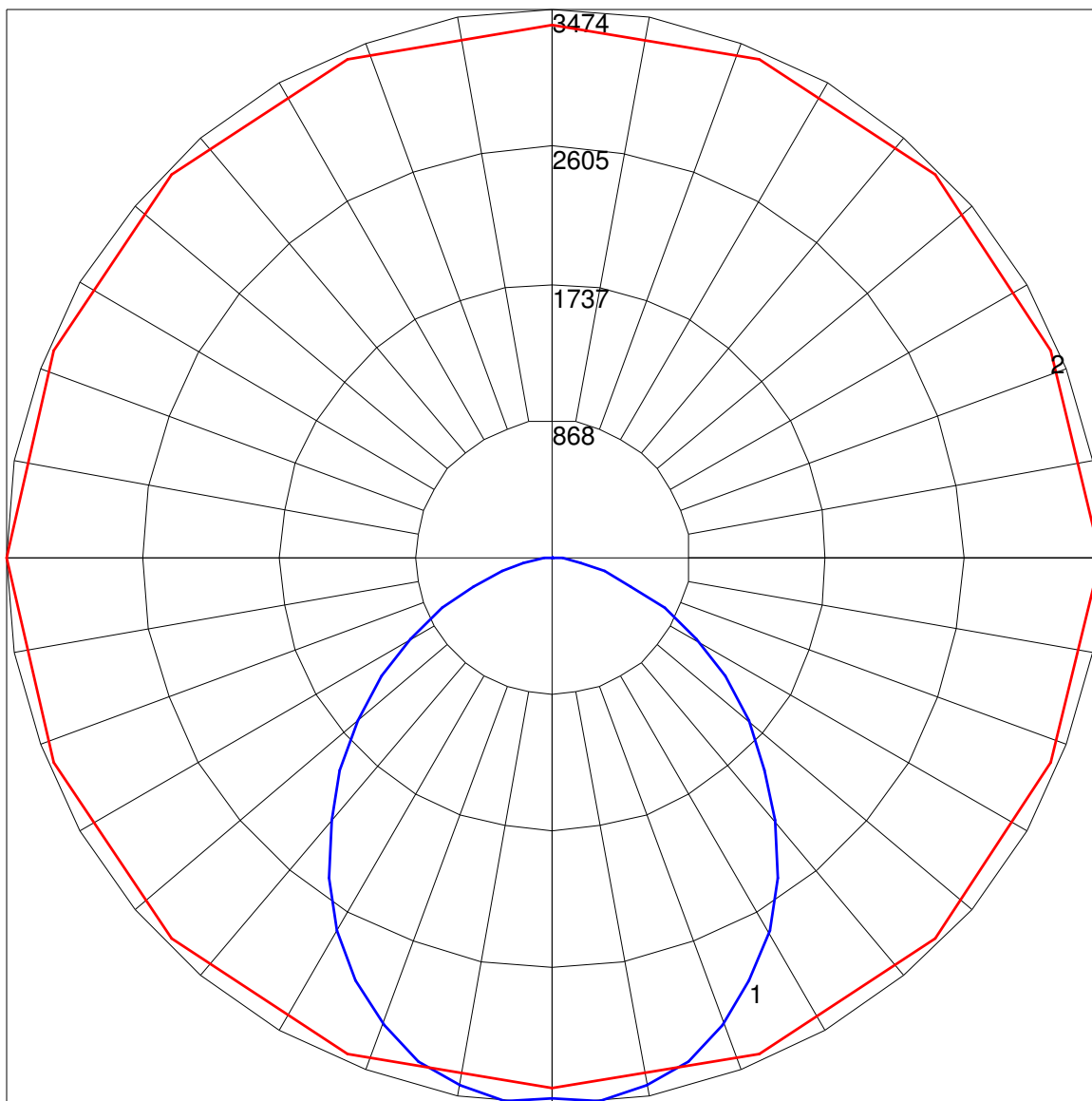
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UGR TABLE - CORRECTED

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	21.1	22.5	21.6	23.0	23.6	22.4	23.9	23.0	24.4	24.9
	3H	22.5	23.8	23.0	24.3	24.9	24.8	26.1	25.4	26.6	27.2
	4H	23.0	24.2	23.5	24.7	25.3	26.0	27.2	26.5	27.7	28.3
	6H	23.2	24.4	23.8	24.9	25.5	27.1	28.2	27.7	28.8	29.4
	8H	23.3	24.4	23.9	25.0	25.6	27.7	28.8	28.3	29.3	30.0
	12H	23.3	24.4	23.9	24.9	25.6	28.3	29.3	28.9	29.9	30.6
4H	2H	21.7	22.9	22.3	23.5	24.1	22.8	24.0	23.3	24.5	25.2
	3H	23.3	24.4	23.9	25.0	25.6	25.4	26.4	26.0	27.0	27.6
	4H	23.9	24.9	24.5	25.4	26.1	26.7	27.6	27.3	28.2	28.9
	6H	24.3	25.2	24.9	25.8	26.4	28.0	28.8	28.6	29.4	30.1
	8H	24.4	25.2	25.0	25.8	26.5	28.7	29.5	29.3	30.1	30.8
	12H	24.5	25.2	25.1	25.8	26.5	29.4	30.1	30.0	30.8	31.5
8H	4H	24.3	25.1	25.0	25.7	26.4	26.8	27.6	27.4	28.2	28.9
	6H	24.9	25.6	25.6	26.2	26.9	28.3	29.0	29.0	29.6	30.3
	8H	25.1	25.7	25.8	26.4	27.1	29.1	29.7	29.8	30.4	31.1
	12H	25.3	25.8	25.9	26.4	27.2	30.0	30.5	30.7	31.2	32.0
12H	4H	24.4	25.1	25.1	25.8	26.5	26.8	27.5	27.4	28.2	28.9
	6H	25.1	25.7	25.8	26.3	27.1	28.3	28.9	29.0	29.5	30.3
	8H	25.4	25.9	26.0	26.5	27.3	29.2	29.7	29.8	30.4	31.1

Maximum UGR = 32.0

POLAR GRAPH



Maximum Candela = 3473.869 Located At Horizontal Angle = 0, Vertical Angle = 5
1 - Vertical Plane Through Horizontal Angles (0 - 180) (Through Max. Cd.)
2 - Horizontal Cone Through Vertical Angle (5) (Through Max. Cd.)