



## IES INDOOR REPORT

PHOTOMETRIC FILENAME : 75S-8-L80-8TW-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-L80-8TW-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	7616
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	123
Total Luminaire Watts	62
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	27427	22131	20924
55	23253	18552	18750
65	18259	15853	17032
75	12574	12958	15111
85	5618	10993	13246

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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	2569.688	2569.688	2569.688	2569.688	2569.688
5	2591.790	2559.218	2558.055	2552.238	2521.993
10	2547.585	2518.503	2520.830	2513.850	2485.931
15	2476.625	2448.706	2455.686	2448.706	2425.441
20	2357.971	2337.031	2357.971	2347.501	2323.072
25	2211.397	2203.254	2221.867	2220.703	2184.642
30	2049.701	2053.191	2074.130	2074.130	2029.925
35	1851.943	1879.862	1890.332	1893.821	1848.453
40	1636.736	1678.614	1669.308	1687.921	1664.655
45	1426.182	1463.407	1461.081	1494.816	1489.000
50	1210.975	1244.711	1271.466	1328.467	1340.100
55	989.952	1031.830	1091.158	1176.077	1214.465
60	781.725	832.909	934.115	1038.810	1088.831
65	581.640	663.070	789.868	909.686	960.870
70	399.005	506.027	642.131	772.419	832.909
75	253.595	355.964	509.517	639.805	700.295
80	138.430	237.309	400.169	518.823	574.661
85	44.205	145.410	303.616	409.475	461.823
90	0.000	94.226	231.493	330.372	366.434
95	0.000	86.083	216.370	302.453	323.392
100	0.000	81.430	201.248	275.698	294.310
105	0.000	74.450	188.452	254.759	273.371
110	0.000	69.797	175.655	238.473	257.085
115	0.000	63.980	160.533	223.350	240.799
120	0.000	54.674	144.247	202.411	223.350
125	0.000	45.368	130.287	184.962	203.574
130	0.000	37.225	112.838	165.186	177.982
135	0.000	33.735	90.736	143.084	155.880
140	0.000	27.919	70.960	119.818	132.614
145	0.000	22.102	54.674	93.062	105.859
150	0.000	16.286	41.878	70.960	81.430
155	0.000	12.796	33.735	51.184	59.327
160	0.000	0.000	24.429	37.225	41.878
165	0.000	0.000	16.286	26.755	29.082
170	0.000	0.000	0.000	16.286	17.449
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	932.85	N.A.	12.20
0-30	1951.3	N.A.	25.60
0-40	3123.65	N.A.	41.00
0-60	5248.83	N.A.	68.90
0-80	6554.68	N.A.	86.10
0-90	6866.5	N.A.	90.20
10-90	6623.7	N.A.	87.00
20-40	2190.8	N.A.	28.80
20-50	3327.88	N.A.	43.70
40-70	2901.96	N.A.	38.10
60-80	1305.86	N.A.	17.10
70-80	529.08	N.A.	6.90
80-90	311.81	N.A.	4.10
90-110	383.68	N.A.	5.00
90-120	524.14	N.A.	6.90
90-130	627.61	N.A.	8.20
90-150	730.30	N.A.	9.60
90-180	749.55	N.A.	9.80
110-180	365.87	N.A.	4.80
0-180	7616.04	N.A.	100.00

Total Luminaire Efficiency = N.A. %

**ZONAL LUMEN SUMMARY**

Zone	Lumens
0-10	242.80
10-20	690.05
20-30	1018.45
30-40	1172.35
40-50	1137.09
50-60	988.09
60-70	776.78
70-80	529.08
80-90	311.81
90-100	209.93
100-110	173.75
110-120	140.46
120-130	103.48
130-140	67.06
140-150	35.63
150-160	14.91
160-170	4.11
170-180	0.22

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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	233	233	233	233	226	226	226	226	211	211	211	198	198	198	186	186	186	180
1	211	201	192	184	204	195	186	179	183	176	170	171	166	161	161	157	153	147
2	192	175	161	149	185	170	157	146	159	149	140	150	141	134	141	134	128	122
3	175	154	138	124	169	149	134	122	141	128	117	132	122	113	125	116	109	103
4	161	137	119	106	154	133	116	104	125	111	100	118	106	97	112	102	94	89
5	148	122	104	91	142	119	102	90	112	98	87	106	94	84	101	90	82	77
6	137	110	93	80	132	107	91	79	102	87	77	97	84	74	92	81	72	68
7	127	100	83	71	122	98	81	70	93	78	68	88	76	66	84	73	64	60
8	118	92	75	63	114	89	73	62	85	71	61	81	69	59	77	66	58	54
9	110	84	68	57	107	82	67	56	78	65	55	75	63	54	72	61	52	49
10	104	78	62	52	100	76	61	51	73	59	50	69	57	49	66	56	48	44

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**UGR TABLE - CORRECTED**

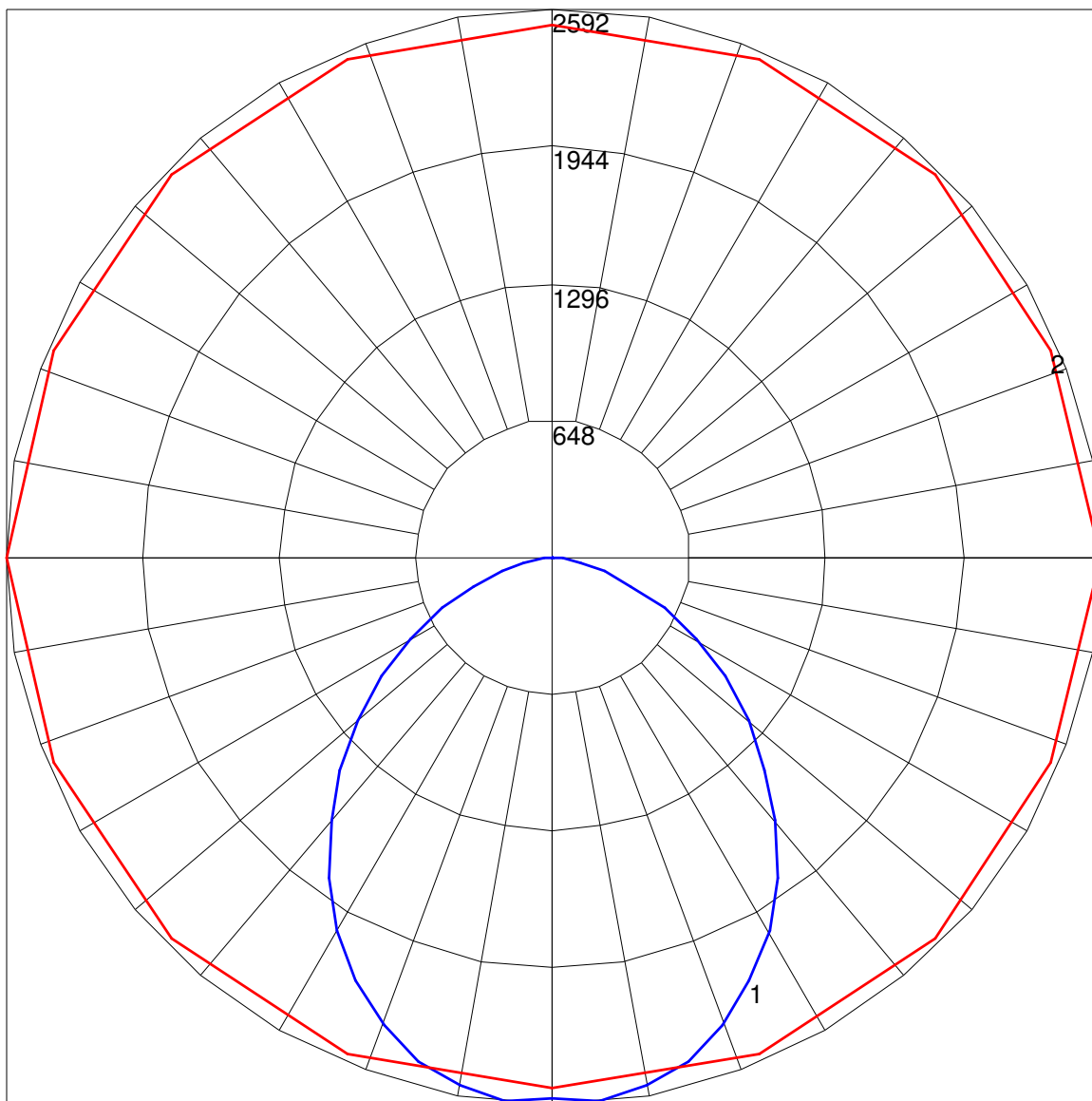
Reflectances

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	18.6	20.0	19.1	20.5	21.1	19.9	21.4	20.5	21.9	22.4
	3H	20.0	21.3	20.6	21.8	22.4	22.3	23.6	22.9	24.1	24.7
	4H	20.5	21.7	21.0	22.2	22.8	23.5	24.7	24.0	25.2	25.8
	6H	20.7	21.9	21.3	22.4	23.0	24.6	25.7	25.2	26.3	26.9
	8H	20.8	21.9	21.4	22.5	23.1	25.2	26.3	25.8	26.8	27.5
	12H	20.8	21.9	21.4	22.4	23.1	25.8	26.8	26.4	27.4	28.1
4H	2H	19.2	20.4	19.8	21.0	21.6	20.3	21.5	20.8	22.0	22.7
	3H	20.8	21.9	21.4	22.5	23.1	22.9	23.9	23.5	24.5	25.1
	4H	21.4	22.4	22.0	22.9	23.6	24.2	25.1	24.8	25.7	26.4
	6H	21.8	22.7	22.4	23.3	23.9	25.5	26.3	26.1	26.9	27.6
	8H	21.9	22.7	22.6	23.3	24.0	26.2	27.0	26.8	27.6	28.3
	12H	22.0	22.7	22.6	23.4	24.0	26.9	27.6	27.6	28.3	29.0
8H	4H	21.9	22.6	22.5	23.2	23.9	24.3	25.1	24.9	25.7	26.4
	6H	22.4	23.1	23.1	23.7	24.4	25.8	26.5	26.5	27.1	27.8
	8H	22.6	23.2	23.3	23.9	24.6	26.6	27.2	27.3	27.9	28.6
	12H	22.8	23.3	23.4	23.9	24.7	27.5	28.0	28.2	28.7	29.5
12H	4H	21.9	22.6	22.6	23.3	24.0	24.3	25.0	24.9	25.7	26.4
	6H	22.6	23.2	23.3	23.8	24.6	25.8	26.4	26.5	27.0	27.8
	8H	22.9	23.4	23.5	24.0	24.8	26.7	27.2	27.3	27.9	28.6

Maximum UGR = 29.5

POLAR GRAPH



Maximum Candela = 2591.79 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.)