



IES INDOOR REPORT

PHOTOMETRIC FILENAME : 75-8-L80-8TW-DIM-UNV 4000K_.IES

DESCRIPTION INFORMATION (From Photometric File)

IESNA:LM-63-2002

[TEST] GEN from BALLABS TEST NO. 17875.0

[TESTLAB] BUILDING ACOUSTICS & LIGHTING LABORATORIES, INC

[ISSUE DATE] 17-DEC-2019

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

[LUMINAIRE] 8' STRIP w/WHITE REFLECTOR

[LUMCAT] 75-8-L80-8TW-DIM-UNV 4000k

CHARACTERISTICS

Lumens Per Lamp	N.A. (absolute)
Total Lamp Lumens	N.A. (absolute)
Luminaire Lumens	8102
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	131
Total Luminaire Watts	61.97
Ballast Factor	1.00
CIE Type	Direct
Spacing Criterion (0-180)	1.32
Spacing Criterion (90-270)	1.28
Spacing Criterion (Diagonal)	1.42
Basic Luminous Shape	Rectangular w/Sides
Luminous Length (0-180)	7.62 ft
Luminous Width (90-270)	0.22 ft
Luminous Height	0.01 ft

LUMINANCE DATA (cd/sq.m)

Angle In Degrees	Average 0-Deg	Average 45-Deg	Average 90-Deg
45	17482	16718	16485
55	17047	16121	15782
65	15897	14638	14170
75	13419	11848	11341
85	7078	6715	5516

IES INDOOR REPORT
PHOTOMETRIC FILENAME : 75-8-L80-8TW-DIM-UNV 4000K_.IES

CANDELA TABULATION

	<u>0.0</u>	<u>22.5</u>	<u>45.0</u>	<u>67.5</u>	<u>90.0</u>
0	2750.705	2750.705	2750.705	2750.705	2750.705
5	2770.804	2753.577	2742.091	2734.435	2731.563
10	2740.177	2722.949	2709.550	2701.893	2698.065
15	2694.236	2672.223	2658.824	2647.339	2651.167
20	2621.497	2603.312	2587.998	2576.513	2583.213
25	2529.615	2514.302	2492.288	2482.717	2478.889
30	2426.248	2404.235	2379.351	2371.694	2351.595
35	2294.169	2275.984	2247.271	2241.528	2220.472
40	2141.033	2102.749	2087.435	2076.907	2071.164
45	1962.055	1915.157	1905.586	1896.972	1890.272
50	1763.935	1720.866	1713.209	1709.381	1687.367
55	1552.416	1507.432	1500.733	1500.733	1481.591
60	1322.712	1282.514	1263.372	1271.986	1243.273
65	1067.166	1037.496	1015.483	1033.668	995.384
70	808.749	771.423	759.937	779.079	749.409
75	552.247	515.877	515.877	515.877	504.392
80	293.830	288.087	288.087	283.302	271.816
85	98.581	103.367	110.066	105.281	95.710
90	8.614	8.614	13.399	8.614	8.614
95	0.000	0.000	0.000	0.000	0.000
100	0.000	0.000	0.000	0.000	0.000
105	0.000	0.000	0.000	0.000	0.000
110	0.000	0.000	0.000	0.000	0.000
115	0.000	0.000	0.000	0.000	0.000
120	0.000	0.000	0.000	0.000	0.000
125	0.000	0.000	0.000	0.000	0.000
130	0.000	0.000	0.000	0.000	0.000
135	0.000	0.000	0.000	0.000	0.000
140	0.000	0.000	0.000	0.000	0.000
145	0.000	0.000	0.000	0.000	0.000
150	0.000	0.000	0.000	0.000	0.000
155	0.000	0.000	0.000	0.000	0.000
160	0.000	0.000	0.000	0.000	0.000
165	0.000	0.000	0.000	0.000	0.000
170	0.000	0.000	0.000	0.000	0.000
175	0.000	0.000	0.000	0.000	0.000
180	0.000	0.000	0.000	0.000	0.000

IES INDOOR REPORT
PHOTOMETRIC FILENAME : 75-8-L80-8TW-DIM-UNV 4000K_.IES

ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixt
0-20	1013.00	N.A.	12.50
0-30	2165.07	N.A.	26.70
0-40	3574.15	N.A.	44.10
0-60	6392.64	N.A.	78.90
0-80	7961.98	N.A.	98.30
0-90	8098.98	N.A.	100.00
10-90	7838.00	N.A.	96.70
20-40	2561.15	N.A.	31.60
20-50	4035.71	N.A.	49.80
40-70	3835.01	N.A.	47.30
60-80	1569.34	N.A.	19.40
70-80	552.82	N.A.	6.80
80-90	137.00	N.A.	1.70
90-110	2.69	N.A.	0.00
90-120	2.69	N.A.	0.00
90-130	2.69	N.A.	0.00
90-150	2.69	N.A.	0.00
90-180	2.69	N.A.	0.00
110-180	0.00	N.A.	0.00
0-180	8101.67	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	260.98
10-20	752.02
20-30	1152.08
30-40	1409.07
40-50	1474.56
50-60	1343.93
60-70	1016.52
70-80	552.82
80-90	137.00
90-100	2.69
100-110	0.00
110-120	0.00
120-130	0.00
130-140	0.00
140-150	0.00
150-160	0.00
160-170	0.00
170-180	0.00

IES INDOOR REPORT
PHOTOMETRIC FILENAME : 75-8-L80-8TW-DIM-UNV 4000K_.IES

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	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100
1	108	103	99	95	106	101	97	94	97	94	91	93	90	88	89	87	85	83
2	98	90	83	77	96	88	82	77	85	79	75	81	77	73	78	75	71	69
3	90	79	71	64	87	77	70	64	74	68	62	72	66	61	69	64	60	58
4	82	70	61	54	80	69	60	54	66	59	53	64	57	52	61	56	52	49
5	75	62	53	47	73	61	53	46	59	52	46	57	50	45	55	49	45	43
6	69	56	47	41	67	55	47	40	53	46	40	52	45	40	50	44	39	37
7	64	51	42	36	63	50	42	36	48	41	35	47	40	35	46	39	35	33
8	60	46	38	32	58	46	37	32	44	37	32	43	36	31	42	36	31	29
9	56	42	34	29	54	42	34	29	41	33	28	40	33	28	39	32	28	26
10	52	39	31	26	51	39	31	26	38	31	26	37	30	26	36	30	25	24

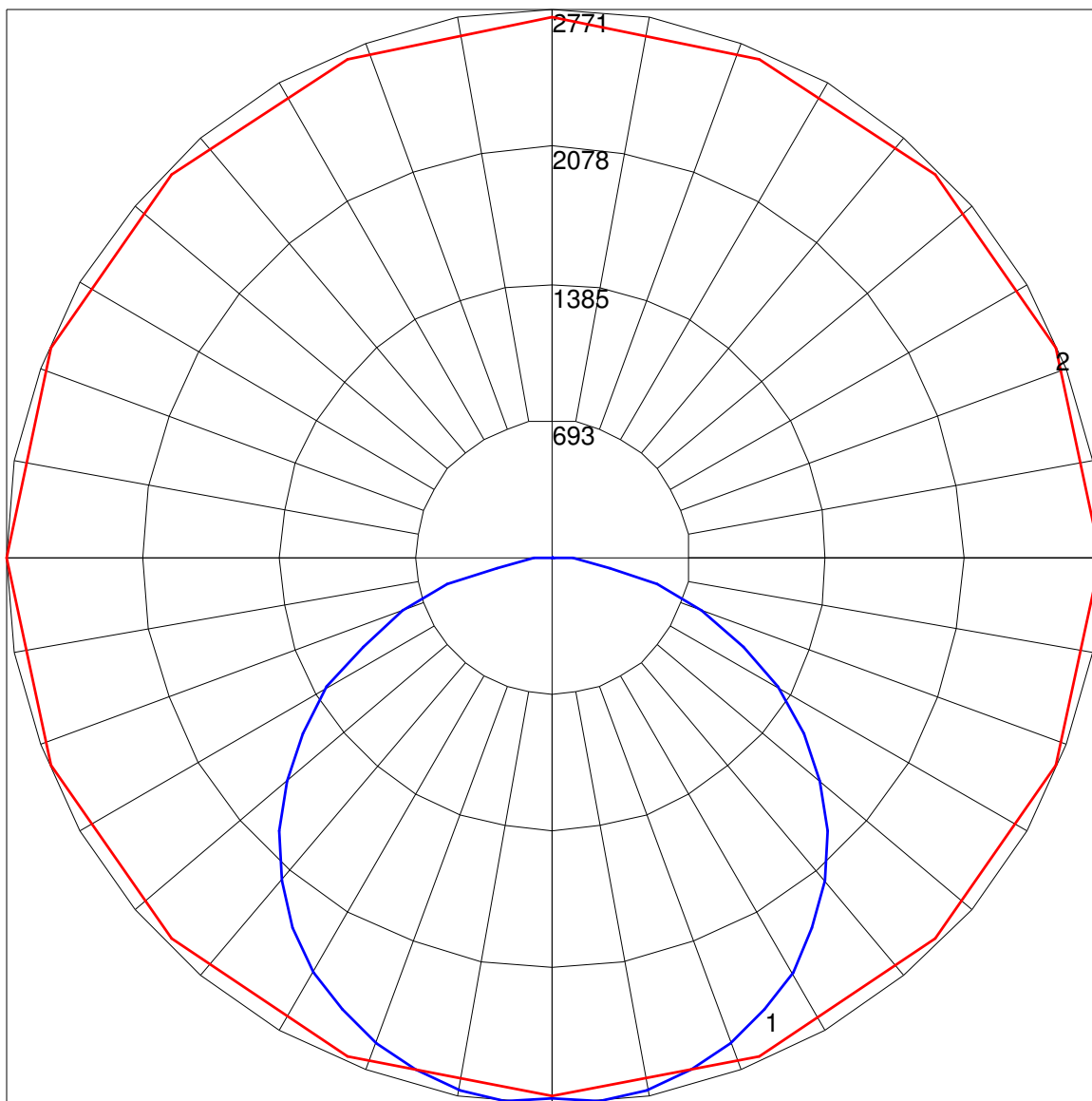
IES INDOOR REPORT
PHOTOMETRIC FILENAME : 75-8-L80-8TW-DIM-UNV 4000K_.IES

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	22.0	23.7	22.4	24.0	24.3	21.9	23.6	22.3	23.9	24.2
	3H	23.8	25.3	24.2	25.7	26.0	23.7	25.2	24.1	25.5	25.9
	4H	24.5	25.9	24.9	26.2	26.6	24.3	25.7	24.7	26.0	26.4
	6H	24.9	26.2	25.3	26.6	26.9	24.7	26.0	25.1	26.3	26.7
	8H	25.0	26.2	25.4	26.6	27.0	24.8	26.0	25.2	26.4	26.8
	12H	25.1	26.3	25.5	26.6	27.1	24.8	26.0	25.3	26.4	26.8
4H	2H	22.6	24.0	23.0	24.4	24.8	22.5	24.0	22.9	24.3	24.7
	3H	24.6	25.8	25.0	26.2	26.6	24.5	25.7	24.9	26.1	26.5
	4H	25.4	26.4	25.8	26.8	27.3	25.2	26.3	25.7	26.7	27.1
	6H	25.9	26.8	26.3	27.3	27.7	25.7	26.6	26.2	27.1	27.5
	8H	26.0	26.9	26.5	27.4	27.8	25.9	26.7	26.3	27.2	27.6
	12H	26.1	26.9	26.6	27.4	27.8	25.9	26.7	26.4	27.2	27.7
8H	4H	25.6	26.5	26.1	26.9	27.4	25.5	26.4	25.9	26.8	27.3
	6H	26.2	27.0	26.7	27.4	27.9	26.1	26.8	26.6	27.3	27.8
	8H	26.5	27.1	27.0	27.6	28.1	26.3	26.9	26.8	27.4	27.9
	12H	26.6	27.1	27.1	27.6	28.2	26.4	27.0	26.9	27.5	28.0
12H	4H	25.6	26.4	26.1	26.9	27.4	25.5	26.3	26.0	26.8	27.2
	6H	26.3	26.9	26.8	27.4	27.9	26.1	26.8	26.7	27.2	27.8
	8H	26.5	27.1	27.0	27.6	28.1	26.4	26.9	26.9	27.4	28.0

Maximum UGR = 28.2

POLAR GRAPH



Maximum Candela = 2770.804 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.)