



IES INDOOR REPORT

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

DESCRIPTION INFORMATION (From Photometric File)

IESNA:LM-63-2002

[TEST] GEN from BALLABS TEST NO. 19750.0

[TESTLAB] BUILDING ACOUSTICS & LIGHTING LABORATORIES, INC

[ISSUEDATE] 1-NOV-2019

[MANUFAC] WILLIAMS INDOOR

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

[LUMINAIRE] 8' SURFACE MOUNT STRIP LUMINAIRE

[MORE] WHITE REFLECTOR w/FROSTED ACRYLIC ROUND LENS

[LUMCAT] 75R-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	8138
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	159
Total Luminaire Watts	51.14
Ballast Factor	1.00
CIE Type	Direct
Spacing Criterion (0-180)	1.22
Spacing Criterion (90-270)	1.28
Spacing Criterion (Diagonal)	1.36
Basic Luminous Shape	Rectangular w/Sides
Luminous Length (0-180)	7.44 ft
Luminous Width (90-270)	0.21 ft
Luminous Height	0.10 ft

LUMINANCE DATA (cd/sq.m)

Angle In Degrees	Average 0-Deg	Average 45-Deg	Average 90-Deg
45	14422	12115	12007
55	11970	10389	10570
65	9951	8749	8905
75	6858	7216	7296
85	4362	6236	5983

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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	2606.498	2606.498	2606.498	2606.498	2606.498
5	2635.114	2596.545	2597.789	2591.569	2565.441
10	2591.569	2559.221	2565.441	2561.709	2538.070
15	2515.675	2492.036	2509.454	2516.919	2492.036
20	2401.213	2394.993	2424.852	2437.294	2422.364
25	2266.845	2275.554	2317.855	2346.471	2335.273
30	2112.570	2125.012	2197.172	2240.718	2238.229
35	1924.703	1947.098	2051.607	2112.570	2121.279
40	1724.395	1740.569	1872.449	1964.516	1985.667
45	1488.006	1529.063	1680.849	1802.776	1832.636
50	1242.908	1308.848	1494.226	1627.351	1664.675
55	1007.763	1093.610	1302.627	1441.972	1495.471
60	811.187	890.813	1118.493	1257.838	1313.824
65	623.320	710.411	946.800	1073.703	1122.225
70	436.697	553.648	783.816	894.545	941.823
75	268.737	418.035	633.273	737.782	778.839
80	149.298	288.643	505.126	602.170	628.297
85	63.452	199.064	403.105	486.463	503.882
90	8.709	136.857	312.282	385.687	409.326
95	1.244	93.311	250.075	306.061	330.944
100	0.000	60.963	194.088	250.075	269.981
105	0.000	43.545	150.542	204.041	220.215
110	0.000	29.860	115.706	166.716	180.402
115	0.000	24.883	94.556	139.345	149.298
120	0.000	18.662	72.161	114.462	124.415
125	0.000	11.197	53.499	90.823	102.020
130	0.000	7.465	38.569	70.917	80.870
135	0.000	3.732	28.615	55.987	63.452
140	0.000	3.732	19.906	43.545	49.766
145	0.000	0.000	12.442	27.371	34.836
150	0.000	0.000	8.709	19.906	24.883
155	0.000	0.000	6.221	9.953	16.174
160	0.000	0.000	2.488	7.465	8.709
165	0.000	0.000	0.000	2.488	3.732
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

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ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixt
0-20	953.13	N.A.	11.70
0-30	2017.77	N.A.	24.80
0-40	3288.23	N.A.	40.40
0-60	5716.36	N.A.	70.20
0-80	7227.69	N.A.	88.80
0-90	7607.54	N.A.	93.50
10-90	7360.77	N.A.	90.50
20-40	2335.1	N.A.	28.70
20-50	3622.38	N.A.	44.50
40-70	3323.33	N.A.	40.80
60-80	1511.32	N.A.	18.60
70-80	616.13	N.A.	7.60
80-90	379.85	N.A.	4.70
90-110	362.49	N.A.	4.50
90-120	445.60	N.A.	5.50
90-130	492.77	N.A.	6.10
90-150	526.45	N.A.	6.50
90-180	529.98	N.A.	6.50
110-180	167.49	N.A.	2.10
0-180	8137.51	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	246.77
10-20	706.36
20-30	1064.65
30-40	1270.45
40-50	1287.28
50-60	1140.85
60-70	895.19
70-80	616.13
80-90	379.85
90-100	226.16
100-110	136.33
110-120	83.11
120-130	47.17
130-140	23.83
140-150	9.85
150-160	3.08
160-170	0.45
170-180	0.00

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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	255	255	255	255	248	248	248	248	234	234	234	221	221	221	209	209	209	203
1	231	219	209	200	223	213	203	195	201	193	186	190	184	178	180	175	170	165
2	209	190	174	161	202	185	170	158	175	163	152	165	155	147	157	149	141	136
3	190	167	148	134	184	162	145	132	154	139	127	146	134	123	138	128	120	114
4	174	148	128	113	168	144	126	112	136	121	108	130	116	105	123	112	103	97
5	160	132	112	97	155	128	110	96	122	106	94	116	102	91	111	99	89	84
6	148	119	99	85	143	116	97	84	110	94	82	105	91	80	101	88	78	74
7	137	108	88	75	132	105	87	74	100	84	73	96	82	71	92	79	70	65
8	128	98	80	67	123	96	78	66	92	76	65	88	74	64	85	72	62	58
9	119	90	72	60	115	88	71	59	85	69	58	81	67	57	78	66	56	52
10	112	83	66	54	108	81	65	54	78	63	53	75	62	52	73	60	51	47

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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

X=2H	Y=2H	18.4	19.9	18.9	20.4	20.9	20.8	22.3	21.2	22.7	23.2
	3H	19.9	21.3	20.4	21.7	22.3	23.0	24.3	23.4	24.8	25.3
	4H	20.4	21.7	20.9	22.2	22.7	24.0	25.3	24.5	25.8	26.3
	6H	20.7	21.9	21.2	22.4	23.0	25.0	26.2	25.6	26.7	27.3
	8H	20.8	21.9	21.3	22.5	23.0	25.6	26.7	26.1	27.2	27.8
	12H	20.9	22.0	21.4	22.5	23.1	26.1	27.2	26.7	27.7	28.3

UGR Viewed Endwise

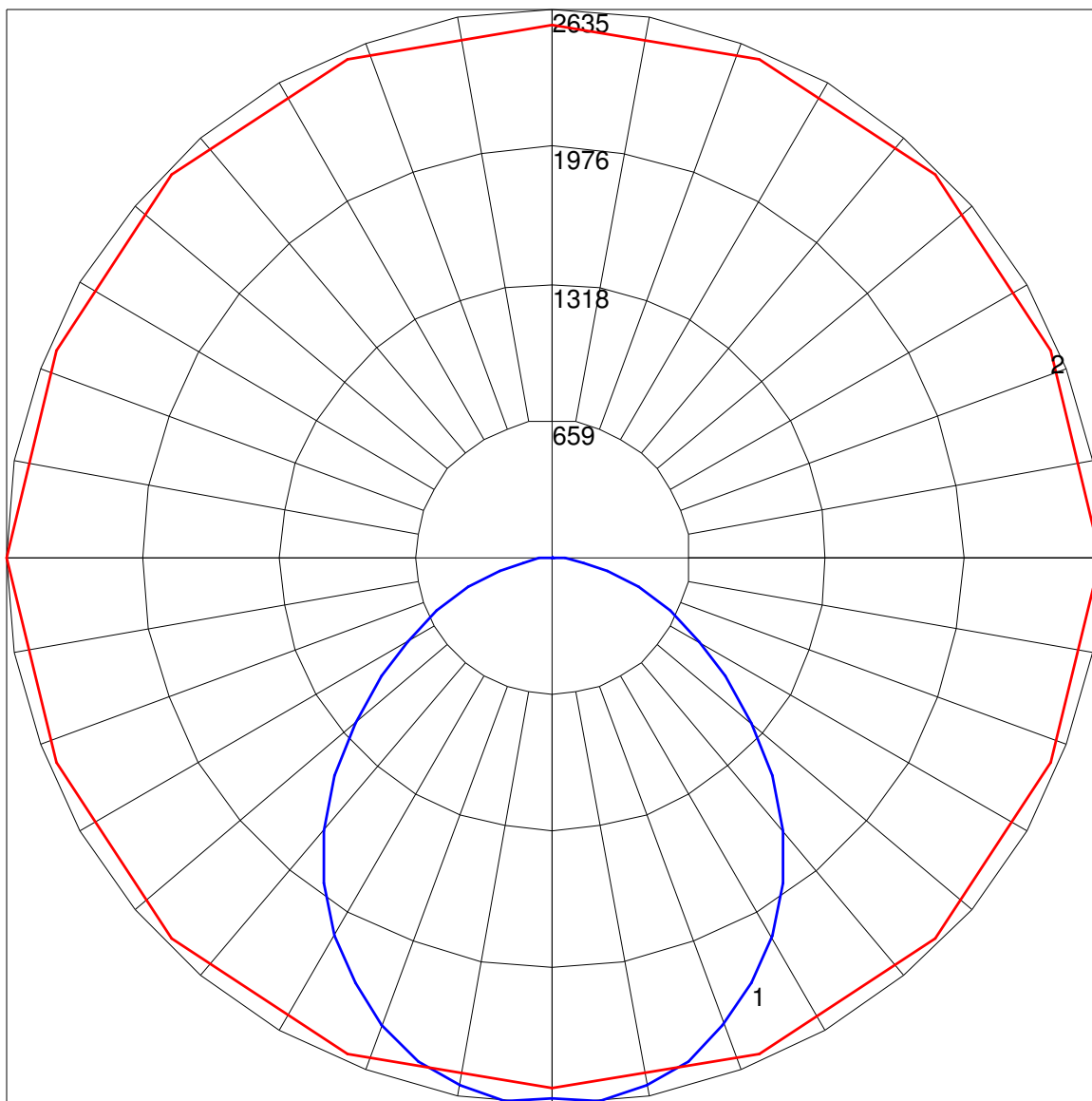
4H	2H	19.2	20.5	19.7	21.0	21.5	21.1	22.4	21.6	22.9	23.4
	3H	20.9	22.0	21.4	22.5	23.1	23.5	24.6	24.0	25.1	25.7
	4H	21.5	22.5	22.1	23.1	23.6	24.7	25.7	25.2	26.2	26.8
	6H	22.0	22.8	22.5	23.4	24.0	25.9	26.8	26.5	27.4	28.0
	8H	22.1	22.9	22.7	23.5	24.1	26.5	27.4	27.1	27.9	28.5
	12H	22.2	22.9	22.8	23.5	24.2	27.2	28.0	27.8	28.6	29.2

8H	4H	22.0	22.9	22.6	23.4	24.0	24.9	25.7	25.4	26.2	26.9
	6H	22.6	23.3	23.2	24.0	24.6	26.2	26.9	26.8	27.5	28.1
	8H	22.9	23.5	23.5	24.1	24.8	27.0	27.6	27.6	28.2	28.9
	12H	23.1	23.6	23.7	24.2	24.9	27.8	28.4	28.4	29.0	29.7

12H	4H	22.1	22.9	22.7	23.5	24.1	24.8	25.6	25.4	26.2	26.8
	6H	22.9	23.5	23.5	24.1	24.7	26.3	26.9	26.9	27.5	28.2
	8H	23.2	23.7	23.8	24.3	25.0	27.0	27.6	27.7	28.2	28.9

Maximum UGR = 29.7

POLAR GRAPH



Maximum Candela = 2635.114 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.)