IES INDOOR REPORT
PHOTOMETRIC FILENAME : 76R-8-L188-840-DRV-UNV_.IES

DESCRIPTION INFORMATION (From Photometric File)

IESNA:LM-63-2002
[TEST] GEN from BALLABS TEST NO. 20990.0
[TESTLAB] BUILDING ACOUSTICS & LIGHTING LABORATORIES, INC
[ISSUEDATE] 10-FEB-2020
[MANUFAC] H.E. WILLIAMS, INC - CARTHAGE, MO
[LUMINAIRE] 72 LED 23.75", 68 LED 22.375"ARRAYS 8' 76R SURFACE LUMINAIRE
[MORE] WHITE REFLECTOR w/RADIAL RIBBED FROST ACRYLIC LENS
[LUMCAT] 76R-8-L188/840-DRV-UNV

CHARACTERISTICS

Lumens Per Lamp	N.A. (absolute)
Total Lamp Lumens	N.A. (absolute)
Luminaire Lumens	18835
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	137
Total Luminaire Watts	137.1
Ballast Factor	1.00
CIE Type	Direct
Spacing Criterion (0-180)	1.20
Spacing Criterion (90-270)	1.28
Spacing Criterion (Diagonal)	1.36
Basic Luminous Shape	Rectangular w/Sides
Luminous Length (0-180)	7.98 ft
Luminous Width (90-270)	0.38 ft
Luminous Height	0.15 ft

LUMINANCE DATA (cd/sq.m)

Angle In Degrees	Average 0-Deg	Average 45-Deg	Average 90-Deg
45	16732	15215	15457
55	14373	13225	13744
65	11701	10999	11900
75	9306	9382	10282
85	4816	8551	9572

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CANDELA TABULATION

	0.0	22.5	45.0	67.5	90.0
0	6082.518	6082.518	6082.518	6082.518	6082.518
5	6133.517	6053.096	6037.405	6037.405	6019.751
10	6021.713	5953.061	5956.984	5972.676	5953.061
15	5819.682	5766.722	5809.874	5856.949	5851.065
20	5558.806	5537.230	5607.843	5694.147	5698.070
25	5197.896	5221.433	5348.929	5462.694	5492.116
30	4817.370	4858.561	5040.978	5188.088	5244.971
35	4342.695	4438.807	4680.067	4872.291	4938.981
40	3889.595	3993.553	4283.850	4552.572	4615.339
45	3352.152	3503.185	3856.250	4146.548	4225.006
50	2850.016	3036.356	3422.765	3742.485	3828.789
55	2353.764	2536.181	2979.473	3310.961	3412.958
60	1883.011	2088.966	2544.027	2850.016	2965.743
65	1429.912	1647.635	2092.888	2483.221	2567.564
70	1055.271	1247.495	1714.325	2092.888	2192.923
75	715.937	929.737	1402.451	1741.785	1816.321
80	398.178	659.054	1121.961	1429.912	1535.831
85	141.226	445.254	890.507	1176.882	1265.148
90	0.000	294.221	694.360	974.851	1031.733
95	0.000	188.301	547.250	798.318	884.623
100	0.000	125.534	419.755	661.015	729.667
105	0.000	84.343	331.488	533.520	610.017
110	0.000	39.229	262.837	437.408	509.982
115	0.000	25.499	209.877	368.756	419.755
120	0.000	0.000	166.725	302.066	355.026
125	0.000	0.000	129.457	241.261	282.452
130	0.000	0.000	101.996	190.263	225.569
135	0.000	0.000	82.382	147.110	180.455
140	0.000	0.000	43.152	111.804	137.303
145	0.000	0.000	15.692	86.305	100.035
150	0.000	0.000	0.000	74.536	84.343
155	0.000	0.000	0.000	70.613	74.536
160	0.000	0.000	0.000	41.191	68.651
165	0.000	0.000	0.000	13.730	23.538
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	2216.4	N.A.	11.80
0-30	4678.91	N.A.	24.80
0-40	7595.17	N.A.	40.30
0-60	13172.35	N.A.	69.90
0-80	16639.55	N.A.	88.30
0-90	17531.66	N.A.	93.10
10-90	16956.66	N.A.	90.00
20-40	5378.77	N.A.	28.60
20-50	8334.15	N.A.	44.20
40-70	7622.3	N.A.	40.50
60-80	3467.2	N.A.	18.40
70-80	1422.08	N.A.	7.60
80-90	892.11	N.A.	4.70
90-110	881.92	N.A.	4.70
90-120	1085.15	N.A.	5.80
90-130	1201.92	N.A.	6.40
90-150	1289.25	N.A.	6.80
90-180	1303.62	N.A.	6.90
110-180	421.70	N.A.	2.20
0-180	18835.28	N.A.	100.00

Total Luminaire Efficiency = N.A.%

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	575.00
10-20	1641.4
20-30	2462.52
30-40	2916.25
40-50	2955.38
50-60	2621.8
60-70	2045.13
70-80	1422.08
80-90	892.11
90-100	545.96
100-110	335.96
110-120	203.23
120-130	116.78
130-140	61.76
140-150	25.56
150-160	11.91
160-170	2.46
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	360	360	360	360	350	350	350	350	329	329	329	311	311	311	294	294	294	286
1	325	309	295	282	315	300	287	275	283	272	262	267	258	250	253	246	239	231
2	295	268	246	228	285	261	240	223	246	229	215	233	219	207	220	209	199	191
3	269	235	209	189	259	229	205	186	216	196	180	205	188	174	195	180	168	160
4	246	208	181	160	237	203	177	157	192	170	153	183	164	149	174	158	144	137
5	226	186	158	137	218	181	155	136	172	150	132	164	144	129	156	139	126	118
6	209	168	140	120	202	163	137	119	156	133	116	149	128	113	142	124	110	104
7	194	152	125	106	187	148	123	105	142	119	103	135	115	100	130	112	98	92
8	180	139	112	94	174	136	111	93	130	107	92	124	104	90	119	101	88	82
9	168	127	102	85	163	125	101	84	119	98	83	115	95	81	110	92	80	74
10	158	117	93	77	153	115	92	76	111	89	75	106	87	74	102	85	72	67

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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	15.7	17.2	16.2	17.6	18.1	17.8	19.3	18.3	19.8	20.3
	3H	17.2	18.5	17.6	19.0	19.5	20.1	21.5	20.6	22.0	22.5
	4H	17.7	19.0	18.2	19.5	20.0	21.2	22.5	21.7	23.0	23.5
	6H	18.1	19.3	18.6	19.8	20.3	22.3	23.5	22.8	24.0	24.6
	8H	18.2	19.3	18.7	19.8	20.4	22.9	24.1	23.4	24.6	25.1
	12H	18.2	19.3	18.8	19.8	20.4	23.6	24.7	24.1	25.2	25.8
4H	2H	16.4	17.7	16.9	18.2	18.7	18.1	19.4	18.7	19.9	20.5
	3H	18.1	19.2	18.6	19.7	20.3	20.7	21.8	21.2	22.3	22.9
	4H	18.7	19.7	19.3	20.3	20.9	21.9	22.9	22.4	23.5	24.1
	6H	19.2	20.1	19.8	20.7	21.3	23.2	24.1	23.8	24.7	25.3
	8H	19.4	20.2	20.0	20.8	21.4	23.9	24.8	24.5	25.3	26.0
	12H	19.5	20.3	20.1	20.9	21.5	24.7	25.5	25.3	26.1	26.7
8H	4H	19.3	20.1	19.8	20.7	21.3	22.1	22.9	22.6	23.5	24.1
	6H	19.9	20.6	20.5	21.2	21.9	23.6	24.3	24.2	24.9	25.5
	8H	20.2	20.8	20.8	21.4	22.1	24.4	25.0	25.0	25.6	26.3
	12H	20.4	21.0	21.0	21.6	22.3	25.4	25.9	26.0	26.5	27.2
12H	4H	19.4	20.1	20.0	20.7	21.3	22.1	22.8	22.7	23.4	24.0
	6H	20.1	20.8	20.8	21.4	22.0	23.6	24.2	24.2	24.8	25.5
	8H	20.5	21.1	21.1	21.7	22.4	24.5	25.1	25.1	25.7	26.4

Maximum UGR = 27.2

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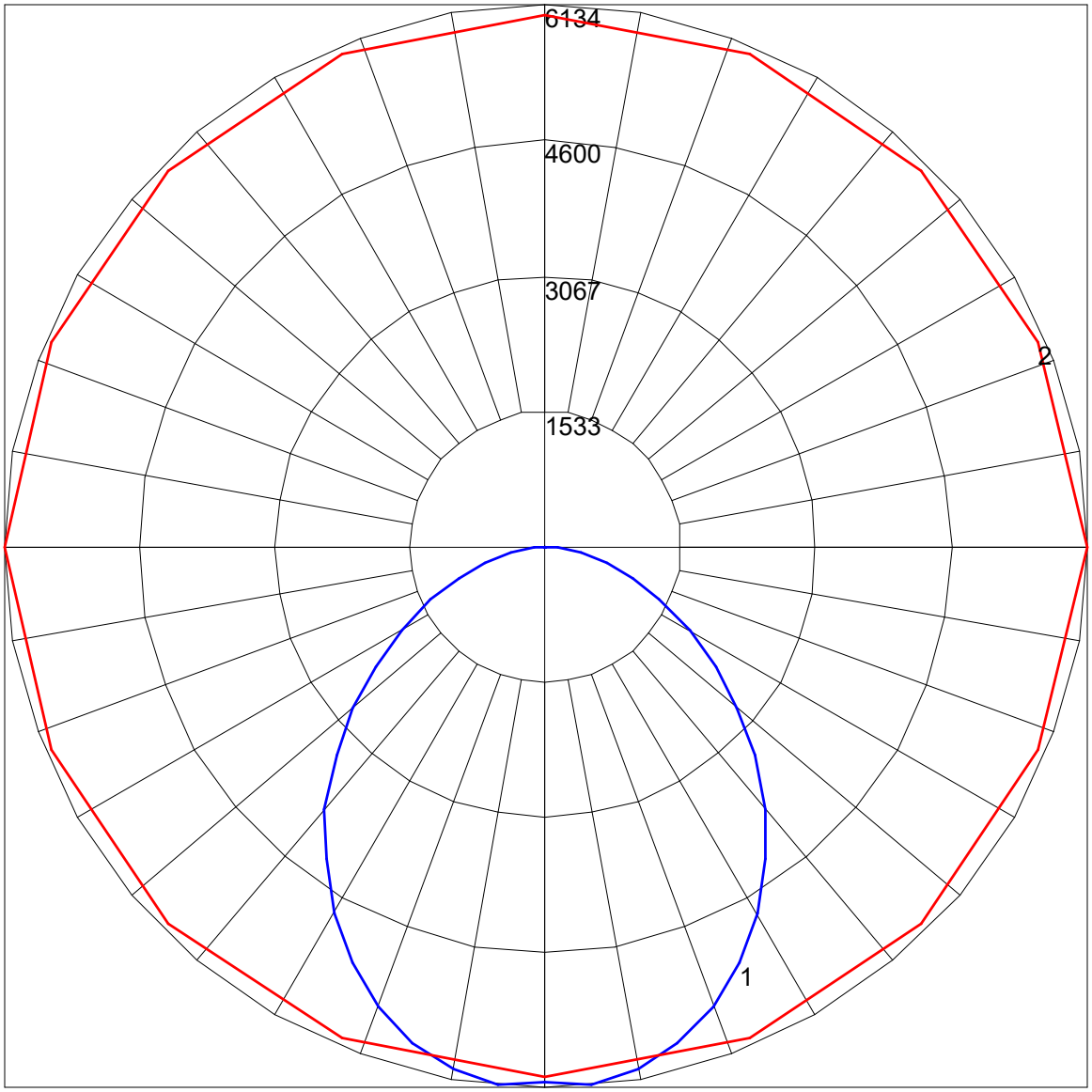
POLAR GRAPH



Maximum Candela = 6133.517 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.)