



IES INDOOR REPORT

PHOTOMETRIC FILENAME : 80R-8-L144-840-(L130)-DIM-UNV_.IES

DESCRIPTION INFORMATION (From Photometric File)

IESNA:LM-63-2002

[TEST] GEN FROM BALLABS TEST NO. 21046.0

[TESTLAB] BUILDING ACOUSTICS & LIGHTING LABORATORIES, INC

[ISSUEDATE] 01-30-2023

[MANUFAC] WILLIAMS INDOOR

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

[LUMINAIRE] 96 INCH INDUSTRIAL LED LUMINAIRE

[MORE] WHITE SIDE REFL w/CENTER 4.5"RADIUS FROST/RIB ACRYLIC LEN

[MORE] (2) 0-10V LED DIMMING DRIVERS

[LUMCAT] 80R-8-L144-840-(L130)-DIM-UNV

[LAMPCAT] HEW HLMX 80 CRI 4000K CCT

CHARACTERISTICS

Lumens Per Lamp	N.A. (absolute)
Total Lamp Lumens	N.A. (absolute)
Luminaire Lumens	13039
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	138
Total Luminaire Watts	94.5
Ballast Factor	1.00
CIE Type	Direct
Spacing Criterion (0-180)	1.20
Spacing Criterion (90-270)	1.30
Spacing Criterion (Diagonal)	1.36
Basic Luminous Shape	Rectangular w/Sides
Luminous Length (0-180)	7.90 ft
Luminous Width (90-270)	1.05 ft
Luminous Height	0.21 ft

LUMINANCE DATA (cd/sq.m)

Angle In Degrees	Average 0-Deg	Average 45-Deg	Average 90-Deg
45	4474	4493	4765
55	3894	4063	4477
65	3241	3614	4067
75	2599	3296	3803
85	1313	3024	3366

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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	4461.410	4461.410	4461.410	4461.410	4461.410
5	4496.818	4427.477	4426.002	4418.625	4421.576
10	4414.199	4356.661	4364.038	4368.464	4372.890
15	4279.944	4225.357	4262.240	4287.321	4296.173
20	4088.151	4052.743	4120.608	4163.393	4189.949
25	3846.196	3838.819	3933.241	4008.483	4029.137
30	3567.358	3589.488	3719.317	3810.788	3838.819
35	3229.506	3289.995	3468.510	3595.389	3647.026
40	2894.605	2965.421	3171.968	3347.533	3406.546
45	2509.543	2634.947	2844.444	3052.466	3118.856
50	2156.938	2274.965	2546.427	2782.480	2838.543
55	1791.056	1929.737	2208.575	2459.382	2544.951
60	1459.105	1583.033	1903.181	2159.889	2210.050
65	1118.303	1274.689	1581.558	1811.710	1891.378
70	836.514	984.048	1274.689	1529.921	1593.361
75	570.954	727.340	1048.963	1249.608	1321.899
80	328.999	508.990	821.761	997.326	1054.864
85	115.076	326.049	572.430	702.259	739.142
90	2.951	129.829	320.147	427.847	449.977
95	0.000	14.753	87.045	185.892	237.529
100	0.000	7.377	11.803	7.377	19.179
105	0.000	0.000	8.852	5.901	2.951
110	0.000	0.000	5.901	5.901	5.901
115	0.000	0.000	2.951	1.475	1.475
120	0.000	0.000	2.951	0.000	0.000
125	0.000	0.000	1.475	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

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ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixt
0-20	1624.58	N.A.	12.50
0-30	3434.96	N.A.	26.30
0-40	5590.71	N.A.	42.90
0-60	9748.68	N.A.	74.80
0-80	12340.24	N.A.	94.60
0-90	12897.55	N.A.	98.90
10-90	12476.29	N.A.	95.70
20-40	3966.13	N.A.	30.40
20-50	6159.68	N.A.	47.20
40-70	5695.25	N.A.	43.70
60-80	2591.56	N.A.	19.90
70-80	1054.28	N.A.	8.10
80-90	557.31	N.A.	4.30
90-110	139.01	N.A.	1.10
90-120	140.76	N.A.	1.10
90-130	141.10	N.A.	1.10
90-150	141.10	N.A.	1.10
90-180	141.10	N.A.	1.10
110-180	2.09	N.A.	0.00
0-180	13038.65	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	421.26
10-20	1203.32
20-30	1810.38
30-40	2155.75
40-50	2193.55
50-60	1964.42
60-70	1537.28
70-80	1054.28
80-90	557.31
90-100	133.48
100-110	5.53
110-120	1.75
120-130	0.34
130-140	0.00
140-150	0.00
150-160	0.00
160-170	0.00
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	119	119	119	119	116	116	116	116	111	111	111	106	106	106	101	101	101	99
1	107	102	97	93	104	100	95	92	95	92	88	91	88	86	87	85	83	81
2	97	89	81	75	95	87	80	74	83	77	72	79	75	71	76	72	69	67
3	89	78	69	62	86	76	68	62	73	66	60	70	64	59	67	62	58	56
4	81	69	60	53	79	67	59	52	65	57	51	62	56	51	60	54	50	48
5	75	61	52	45	72	60	52	45	58	50	45	56	49	44	54	48	43	41
6	69	55	46	40	67	54	46	39	52	45	39	51	44	39	49	43	38	36
7	64	50	41	35	62	49	41	35	48	40	35	46	39	34	45	39	34	32
8	60	46	37	31	58	45	37	31	44	36	31	42	36	31	41	35	30	28
9	56	42	34	28	54	41	33	28	40	33	28	39	32	28	38	32	27	26
10	52	39	31	26	51	38	31	25	37	30	25	36	30	25	35	29	25	23

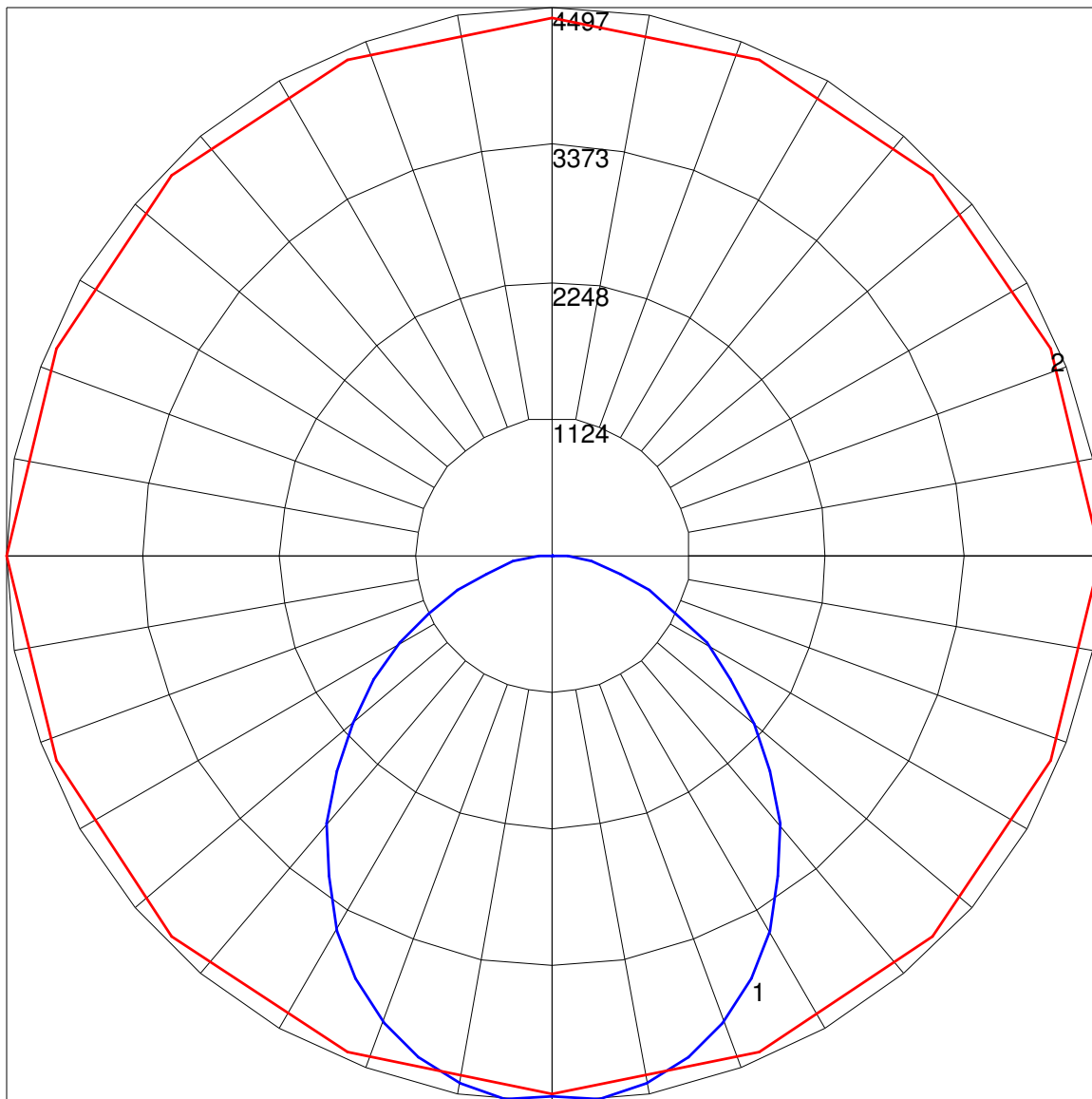
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UGR TABLE - CORRECTED

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	15.3	17.0	15.7	17.3	17.7	17.9	19.5	18.2	19.9	20.2
	3H	16.7	18.2	17.1	18.6	19.0	20.1	21.6	20.5	21.9	22.3
	4H	17.2	18.6	17.6	19.0	19.4	21.1	22.5	21.5	22.9	23.3
	6H	17.5	18.8	17.9	19.2	19.6	22.1	23.4	22.5	23.8	24.2
	8H	17.6	18.8	18.0	19.3	19.7	22.6	23.9	23.0	24.3	24.7
	12H	17.6	18.8	18.0	19.2	19.7	23.1	24.3	23.5	24.7	25.1
4H	2H	16.3	17.7	16.7	18.1	18.5	18.3	19.7	18.7	20.1	20.5
	3H	17.9	19.1	18.4	19.6	20.0	20.7	21.9	21.2	22.3	22.8
	4H	18.5	19.6	19.0	20.0	20.5	21.9	23.0	22.4	23.5	23.9
	6H	19.0	19.9	19.4	20.4	20.8	23.2	24.1	23.6	24.6	25.1
	8H	19.1	20.0	19.5	20.4	20.9	23.7	24.6	24.2	25.1	25.6
	12H	19.1	19.9	19.6	20.4	20.9	24.3	25.1	24.8	25.6	26.1
8H	4H	19.2	20.2	19.7	20.6	21.1	22.2	23.1	22.6	23.5	24.0
	6H	19.9	20.6	20.4	21.1	21.6	23.6	24.3	24.1	24.8	25.3
	8H	20.0	20.7	20.6	21.3	21.8	24.2	24.9	24.8	25.5	26.0
	12H	20.2	20.8	20.7	21.3	21.9	25.0	25.6	25.5	26.1	26.7
12H	4H	19.4	20.3	19.9	20.7	21.2	22.2	23.0	22.7	23.5	24.0
	6H	20.1	20.8	20.7	21.3	21.9	23.6	24.3	24.1	24.8	25.3
	8H	20.4	21.1	21.0	21.6	22.1	24.4	25.0	24.9	25.5	26.1

Maximum UGR = 26.7

POLAR GRAPH



Maximum Candela = 4496.818 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.)