



IES INDOOR REPORT

PHOTOMETRIC FILENAME : 80R-4-L52-835-(L34)-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] 02-22-2024

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

[LUMINAIRE] 22" LED ARRAY 4' WHITE INDUSTRIAL LUMINAIRE

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

[LUMCAT] 80R-4-L52-835-(L34)-DIM-UNV

CHARACTERISTICS

Lumens Per Lamp	N.A. (absolute)
Total Lamp Lumens	N.A. (absolute)
Luminaire Lumens	3268
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	139
Total Luminaire Watts	23.5
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)	3.98 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	2172	2201	2371
55	1871	1980	2228
65	1532	1747	2024
75	1189	1572	1892
85	532	1400	1675

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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	1118.175	1118.175	1118.175	1118.175	1118.175
5	1127.049	1109.670	1109.301	1107.452	1108.191
10	1106.343	1091.922	1093.770	1094.880	1095.989
15	1072.694	1059.012	1068.257	1074.543	1076.761
20	1024.624	1015.750	1032.759	1043.482	1050.138
25	963.982	962.133	985.799	1004.657	1009.833
30	894.096	899.643	932.182	955.108	962.133
35	809.420	824.580	869.322	901.122	914.064
40	725.483	743.231	794.999	839.001	853.792
45	628.973	660.404	712.911	765.048	781.687
50	540.599	570.181	638.218	697.380	711.431
55	448.897	483.655	553.541	616.401	637.848
60	365.699	396.760	476.999	541.339	553.911
65	280.283	319.479	396.390	454.074	474.041
70	209.658	246.635	319.479	383.448	399.348
75	143.100	182.295	262.904	313.193	331.311
80	82.458	127.570	205.960	249.962	264.383
85	28.842	81.718	143.470	176.009	185.253
90	0.740	32.539	80.239	107.232	112.779
95	0.000	3.698	21.816	46.591	59.532
100	0.000	1.849	2.958	1.849	4.807
105	0.000	0.000	2.219	1.479	0.740
110	0.000	0.000	1.479	1.479	1.479
115	0.000	0.000	0.740	0.370	0.370
120	0.000	0.000	0.740	0.000	0.000
125	0.000	0.000	0.370	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	407.17	N.A.	12.50
0-30	860.91	N.A.	26.30
0-40	1401.21	N.A.	42.90
0-60	2443.34	N.A.	74.80
0-80	3092.87	N.A.	94.60
0-90	3232.55	N.A.	98.90
10-90	3126.97	N.A.	95.70
20-40	994.04	N.A.	30.40
20-50	1543.82	N.A.	47.20
40-70	1427.42	N.A.	43.70
60-80	649.53	N.A.	19.90
70-80	264.24	N.A.	8.10
80-90	139.68	N.A.	4.30
90-110	34.84	N.A.	1.10
90-120	35.28	N.A.	1.10
90-130	35.36	N.A.	1.10
90-150	35.36	N.A.	1.10
90-180	35.36	N.A.	1.10
110-180	0.52	N.A.	0.00
0-180	3267.91	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	105.58
10-20	301.59
20-30	453.74
30-40	540.30
40-50	549.78
50-60	492.35
60-70	385.29
70-80	264.24
80-90	139.68
90-100	33.45
100-110	1.39
110-120	0.44
120-130	0.08
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

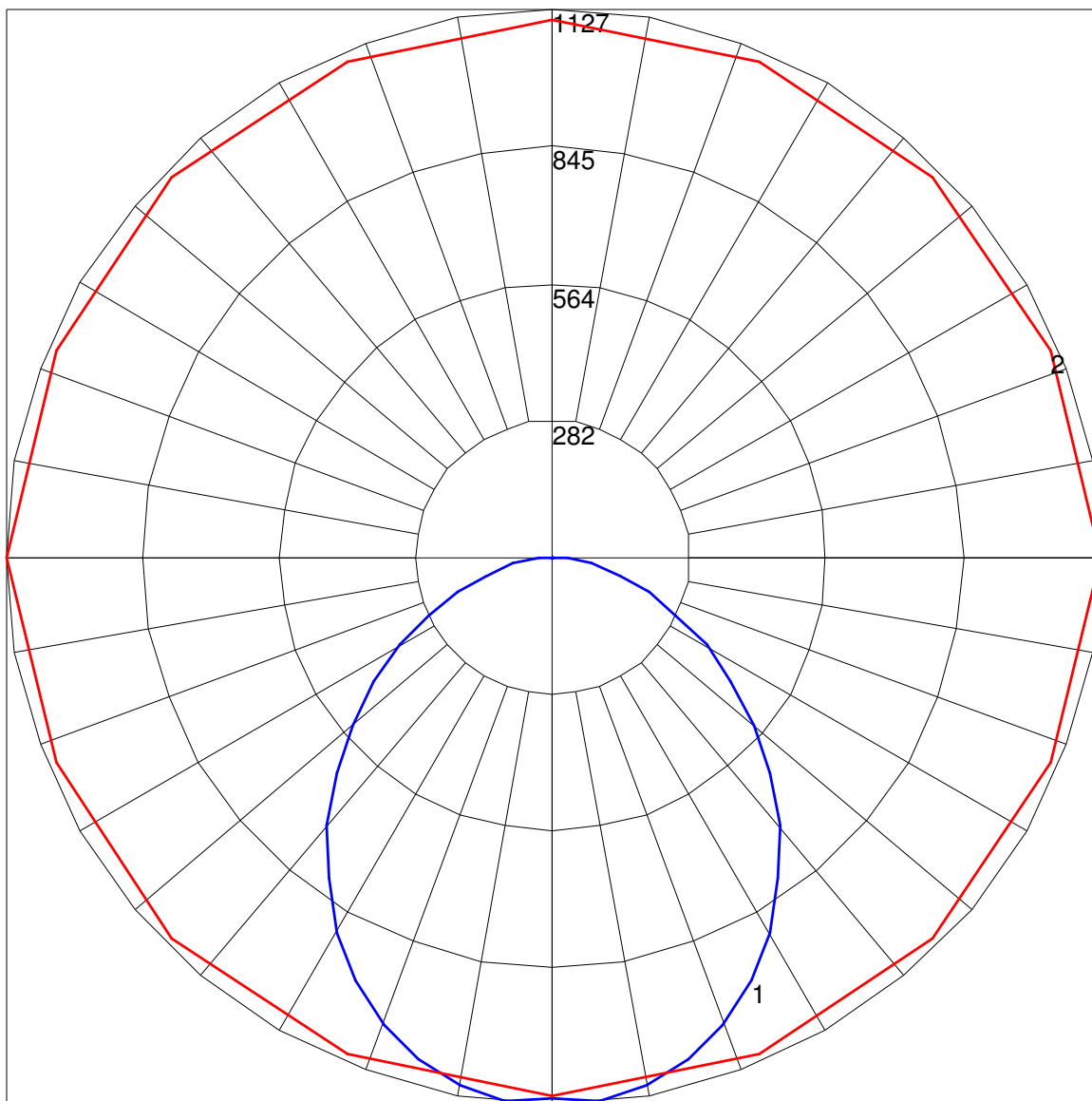
Reflectances

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	12.9	14.5	13.3	14.9	15.2	15.3	17.0	15.7	17.3	17.7
	3H	14.3	15.8	14.7	16.1	16.5	17.5	19.0	17.9	19.3	19.7
	4H	14.8	16.2	15.2	16.5	16.9	18.5	19.9	18.9	20.3	20.7
	6H	15.1	16.4	15.5	16.8	17.2	19.5	20.8	19.9	21.2	21.6
	8H	15.1	16.4	15.6	16.8	17.2	19.9	21.2	20.4	21.6	22.0
	12H	15.2	16.4	15.6	16.8	17.2	20.3	21.5	20.8	22.0	22.4
4H	2H	13.8	15.2	14.2	15.6	16.0	15.8	17.2	16.2	17.5	17.9
	3H	15.5	16.7	15.9	17.1	17.5	18.2	19.4	18.6	19.8	20.2
	4H	16.1	17.1	16.5	17.6	18.0	19.3	20.4	19.8	20.9	21.3
	6H	16.5	17.4	16.9	17.9	18.4	20.5	21.5	21.0	21.9	22.4
	8H	16.6	17.5	17.1	18.0	18.4	21.1	22.0	21.5	22.4	22.9
	12H	16.6	17.5	17.1	18.0	18.5	21.6	22.4	22.1	22.9	23.4
8H	4H	16.8	17.7	17.2	18.1	18.6	19.6	20.5	20.0	20.9	21.4
	6H	17.4	18.1	17.9	18.6	19.1	20.9	21.7	21.4	22.2	22.7
	8H	17.6	18.2	18.1	18.8	19.3	21.6	22.3	22.1	22.8	23.3
	12H	17.7	18.3	18.2	18.8	19.4	22.3	22.9	22.8	23.4	24.0
12H	4H	16.9	17.7	17.4	18.2	18.7	19.6	20.4	20.1	20.9	21.4
	6H	17.6	18.3	18.2	18.8	19.4	21.0	21.7	21.5	22.1	22.7
	8H	17.9	18.5	18.4	19.1	19.6	21.7	22.3	22.2	22.8	23.4

Maximum UGR = 24.0

POLAR GRAPH



Maximum Candela = 1127.049 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.)