



IES INDOOR REPORT

PHOTOMETRIC FILENAME : 80R-4-L52-835-(L34)-EM10W-DIM-UNV_EMER MODE ONLY.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)-EM10W-DIM-UNV (EMER MODE)

CHARACTERISTICS

Lumens Per Lamp	N.A. (absolute)
Total Lamp Lumens	N.A. (absolute)
Luminaire Lumens	1390
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	139
Total Luminaire Watts	10
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	924	936	1009
55	796	842	948
65	652	743	861
75	506	669	805
85	226	596	712

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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	475.601	475.601	475.601	475.601	475.601
5	479.375	471.983	471.826	471.040	471.354
10	470.568	464.434	465.221	465.692	466.164
15	456.256	450.437	454.369	457.042	457.986
20	435.810	432.036	439.270	443.831	446.662
25	410.017	409.231	419.296	427.317	429.519
30	380.292	382.651	396.491	406.242	409.231
35	344.276	350.724	369.754	383.280	388.785
40	308.574	316.124	338.142	356.858	363.149
45	267.525	280.894	303.227	325.403	332.480
50	229.937	242.519	271.457	296.621	302.598
55	190.932	205.716	235.441	262.178	271.300
60	155.545	168.756	202.885	230.251	235.599
65	119.215	135.886	168.599	193.134	201.627
70	89.175	104.903	135.886	163.095	169.857
75	60.866	77.537	111.823	133.212	140.919
80	35.072	54.260	87.602	106.318	112.452
85	12.267	34.758	61.023	74.863	78.795
90	0.315	13.840	34.129	45.610	47.969
95	0.000	1.573	9.279	19.817	25.321
100	0.000	0.786	1.258	0.786	2.045
105	0.000	0.000	0.944	0.629	0.315
110	0.000	0.000	0.629	0.629	0.629
115	0.000	0.000	0.315	0.157	0.157
120	0.000	0.000	0.315	0.000	0.000
125	0.000	0.000	0.157	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 : 80R-4-L52-835-(L34)-EM10W-DIM-UNV_EMER MODE ONLY.IES****ZONAL LUMEN SUMMARY**

Zone	Lumens	%Lamp	%Fixt
0-20	173.19	N.A.	12.50
0-30	366.18	N.A.	26.30
0-40	595.99	N.A.	42.90
0-60	1039.24	N.A.	74.80
0-80	1315.51	N.A.	94.60
0-90	1374.92	N.A.	98.90
10-90	1330.01	N.A.	95.70
20-40	422.80	N.A.	30.40
20-50	656.64	N.A.	47.20
40-70	607.13	N.A.	43.70
60-80	276.27	N.A.	19.90
70-80	112.39	N.A.	8.10
80-90	59.41	N.A.	4.30
90-110	14.82	N.A.	1.10
90-120	15.01	N.A.	1.10
90-130	15.04	N.A.	1.10
90-150	15.04	N.A.	1.10
90-180	15.04	N.A.	1.10
110-180	0.22	N.A.	0.00
0-180	1389.96	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	44.91
10-20	128.28
20-30	192.99
30-40	229.81
40-50	233.84
50-60	209.41
60-70	163.88
70-80	112.39
80-90	59.41
90-100	14.23
100-110	0.59
110-120	0.19
120-130	0.04
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

X=2H	Y=2H	9.9	11.5	10.3	11.9	12.2	12.3	14.0	12.7	14.3	14.7
	3H	11.3	12.8	11.7	13.1	13.5	14.5	16.0	14.9	16.3	16.7
	4H	11.8	13.2	12.2	13.5	13.9	15.5	16.9	15.9	17.3	17.7
	6H	12.1	13.4	12.5	13.8	14.2	16.5	17.8	16.9	18.2	18.6
	8H	12.1	13.4	12.6	13.8	14.2	16.9	18.2	17.4	18.6	19.0
	12H	12.2	13.4	12.6	13.8	14.2	17.3	18.5	17.8	19.0	19.4

UGR Viewed Endwise

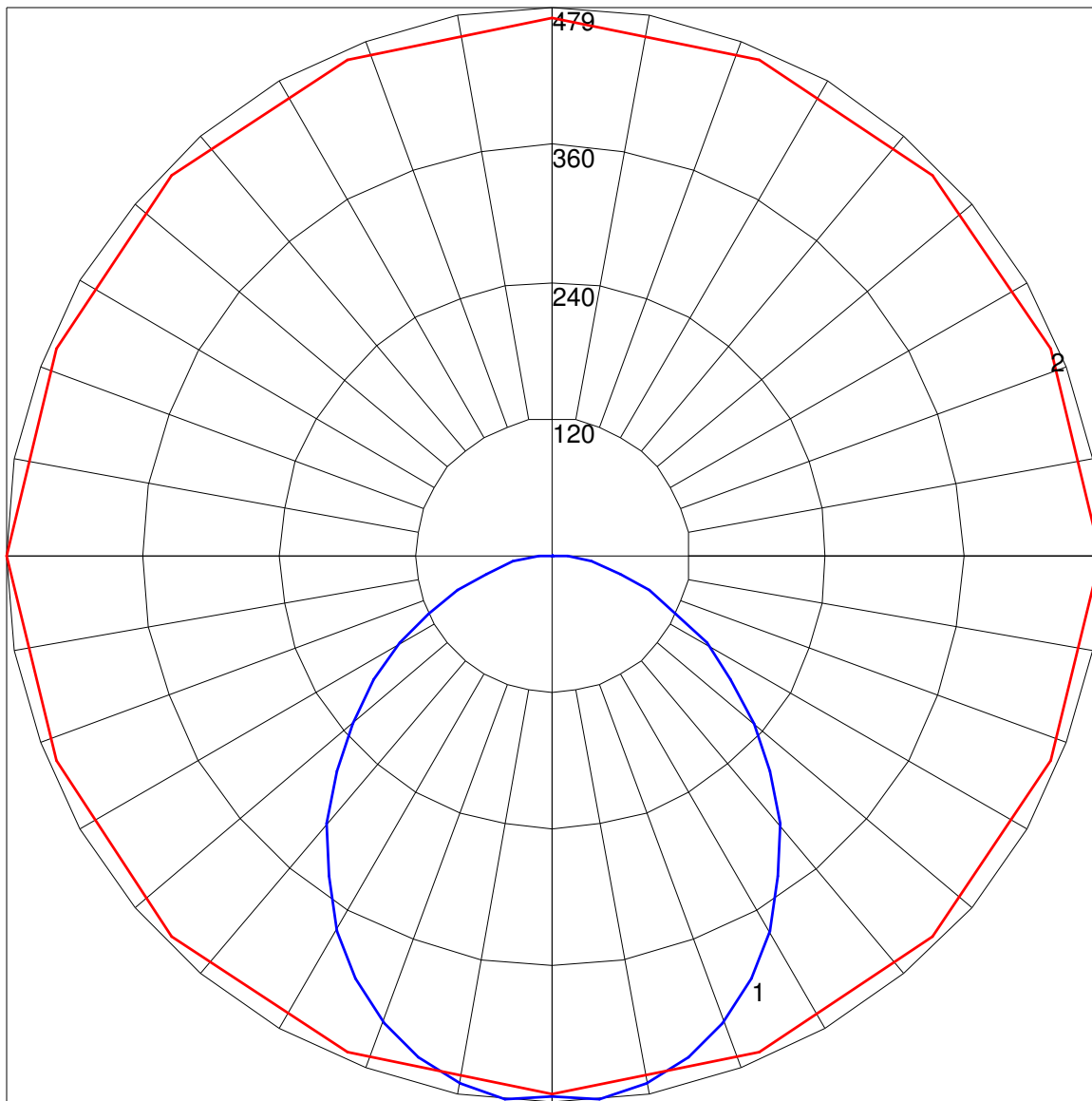
4H	2H	10.8	12.2	11.2	12.6	13.0	12.8	14.2	13.2	14.5	14.9
	3H	12.5	13.7	12.9	14.1	14.5	15.2	16.4	15.6	16.8	17.2
	4H	13.1	14.1	13.5	14.6	15.0	16.3	17.4	16.8	17.9	18.3
	6H	13.5	14.4	13.9	14.9	15.4	17.5	18.5	18.0	18.9	19.4
	8H	13.6	14.5	14.1	15.0	15.4	18.1	19.0	18.5	19.4	19.9
	12H	13.6	14.5	14.1	15.0	15.5	18.6	19.4	19.1	19.9	20.4
8H	4H	13.8	14.7	14.2	15.1	15.6	16.6	17.5	17.0	17.9	18.4
	6H	14.4	15.1	14.9	15.6	16.1	17.9	18.7	18.4	19.2	19.7
	8H	14.6	15.2	15.1	15.8	16.3	18.6	19.3	19.1	19.8	20.3
	12H	14.7	15.3	15.2	15.8	16.4	19.3	19.9	19.8	20.4	21.0
12H	4H	13.9	14.7	14.4	15.2	15.7	16.6	17.4	17.1	17.9	18.4
	6H	14.6	15.3	15.2	15.8	16.4	18.0	18.7	18.5	19.1	19.7
	8H	14.9	15.5	15.4	16.1	16.6	18.7	19.3	19.2	19.8	20.4

Maximum UGR = 21.0

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POLAR GRAPH



Maximum Candela = 479.375 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.)