



IES INDOOR REPORT
PHOTOMETRIC FILENAME : 80R-8-L170-840-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] 18-SEP-2020
[MANUFAC] H.E. WILLIAMS, INC - CARTHAGE, MO
[LUMINAIRE] 22" LED ARRAY 8' WHITE INDUSTRIAL LUMINAIRE
[MORE] WHITE SIDE REFL w/CENTER 4.5" RADIUS FROST/RIB ACRYLIC LEN
[LUMCAT] 80R-8-L170/840-DIM-UNV

CHARACTERISTICS

Lumens Per Lamp	N.A. (absolute)
Total Lamp Lumens	N.A. (absolute)
Luminaire Lumens	17126
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	131
Total Luminaire Watts	131
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)	7.98 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	5820	5844	6197
55	5066	5285	5822
65	4217	4702	5288
75	3383	4288	4945
85	1712	3935	4378

IES INDOOR REPORT
 PHOTOMETRIC FILENAME : 80R-8-L170-840-DIM-UNV_.IES

CANDELA TABULATION

	<u>0.0</u>	<u>22.5</u>	<u>45.0</u>	<u>67.5</u>	<u>90.0</u>
0	5859.814	5859.814	5859.814	5859.814	5859.814
5	5906.320	5815.245	5813.307	5803.618	5807.494
10	5797.805	5722.232	5731.921	5737.734	5743.547
15	5621.468	5549.771	5598.215	5631.157	5642.783
20	5369.558	5323.052	5412.189	5468.384	5503.264
25	5051.764	5042.075	5166.092	5264.919	5292.047
30	4685.526	4714.592	4885.116	5005.257	5042.075
35	4241.776	4321.225	4555.695	4722.343	4790.165
40	3801.903	3894.916	4166.203	4396.798	4474.309
45	3296.145	3460.856	3736.019	4009.244	4096.444
50	2833.018	2988.040	3344.589	3654.632	3728.268
55	2352.452	2534.602	2900.840	3230.261	3342.652
60	1916.454	2079.226	2499.722	2836.894	2902.778
65	1468.829	1674.232	2077.288	2379.580	2484.220
70	1098.715	1292.492	1674.232	2009.467	2092.791
75	749.917	955.320	1377.754	1641.290	1736.241
80	432.122	668.530	1079.337	1309.932	1385.505
85	151.146	428.247	751.854	922.378	970.822
90	3.876	170.524	420.496	561.953	591.020
95	0.000	19.378	114.328	244.159	311.981
100	0.000	9.689	15.502	9.689	25.191
105	0.000	0.000	11.627	7.751	3.876
110	0.000	0.000	7.751	7.751	7.751
115	0.000	0.000	3.876	1.938	1.938
120	0.000	0.000	3.876	0.000	0.000
125	0.000	0.000	1.938	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-8-L170-840-DIM-UNV_.IES

ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixt
0-20	2133.8	N.A.	12.50
0-30	4511.63	N.A.	26.30
0-40	7343.09	N.A.	42.90
0-60	12804.35	N.A.	74.80
0-80	16208.22	N.A.	94.60
0-90	16940.21	N.A.	98.90
10-90	16386.91	N.A.	95.70
20-40	5209.29	N.A.	30.40
20-50	8090.4	N.A.	47.20
40-70	7480.39	N.A.	43.70
60-80	3403.87	N.A.	19.90
70-80	1384.74	N.A.	8.10
80-90	731.99	N.A.	4.30
90-110	182.58	N.A.	1.10
90-120	184.88	N.A.	1.10
90-130	185.32	N.A.	1.10
90-150	185.32	N.A.	1.10
90-180	185.32	N.A.	1.10
110-180	2.75	N.A.	0.00
0-180	17125.53	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	553.30
10-20	1580.5
20-30	2377.84
30-40	2831.45
40-50	2881.1
50-60	2580.16
60-70	2019.13
70-80	1384.74
80-90	731.99
90-100	175.32
100-110	7.26
110-120	2.30
120-130	0.44
130-140	0.00
140-150	0.00
150-160	0.00
160-170	0.00
170-180	0.00

IES INDOOR REPORT
PHOTOMETRIC FILENAME : 80R-8-L170-840-DIM-UNV_.IES

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	336	336	336	336	327	327	327	327	312	312	312	298	298	298	285	285	285	279
1	303	289	275	263	295	282	270	259	269	259	250	257	249	242	247	240	234	228
2	275	250	230	213	267	245	226	210	234	218	205	224	211	199	215	204	194	188
3	250	219	195	176	243	215	192	174	206	187	171	197	181	167	190	176	164	158
4	229	194	169	149	222	190	166	148	183	162	145	176	158	143	169	154	141	134
5	211	174	148	128	204	170	146	127	164	142	126	158	139	124	152	136	122	116
6	195	156	131	112	189	153	129	111	148	126	110	143	124	109	138	121	108	102
7	181	142	117	99	175	139	115	98	135	113	97	130	111	97	126	109	96	90
8	168	129	105	88	163	127	104	88	123	102	87	119	100	86	116	99	86	80
9	157	119	95	79	153	117	95	79	113	93	79	110	91	78	107	90	77	72
10	147	110	87	72	144	108	86	72	105	85	71	102	84	71	99	83	70	65

IES INDOOR REPORT
PHOTOMETRIC FILENAME : 80R-8-L170-840-DIM-UNV_.IES

UGR TABLE - CORRECTED

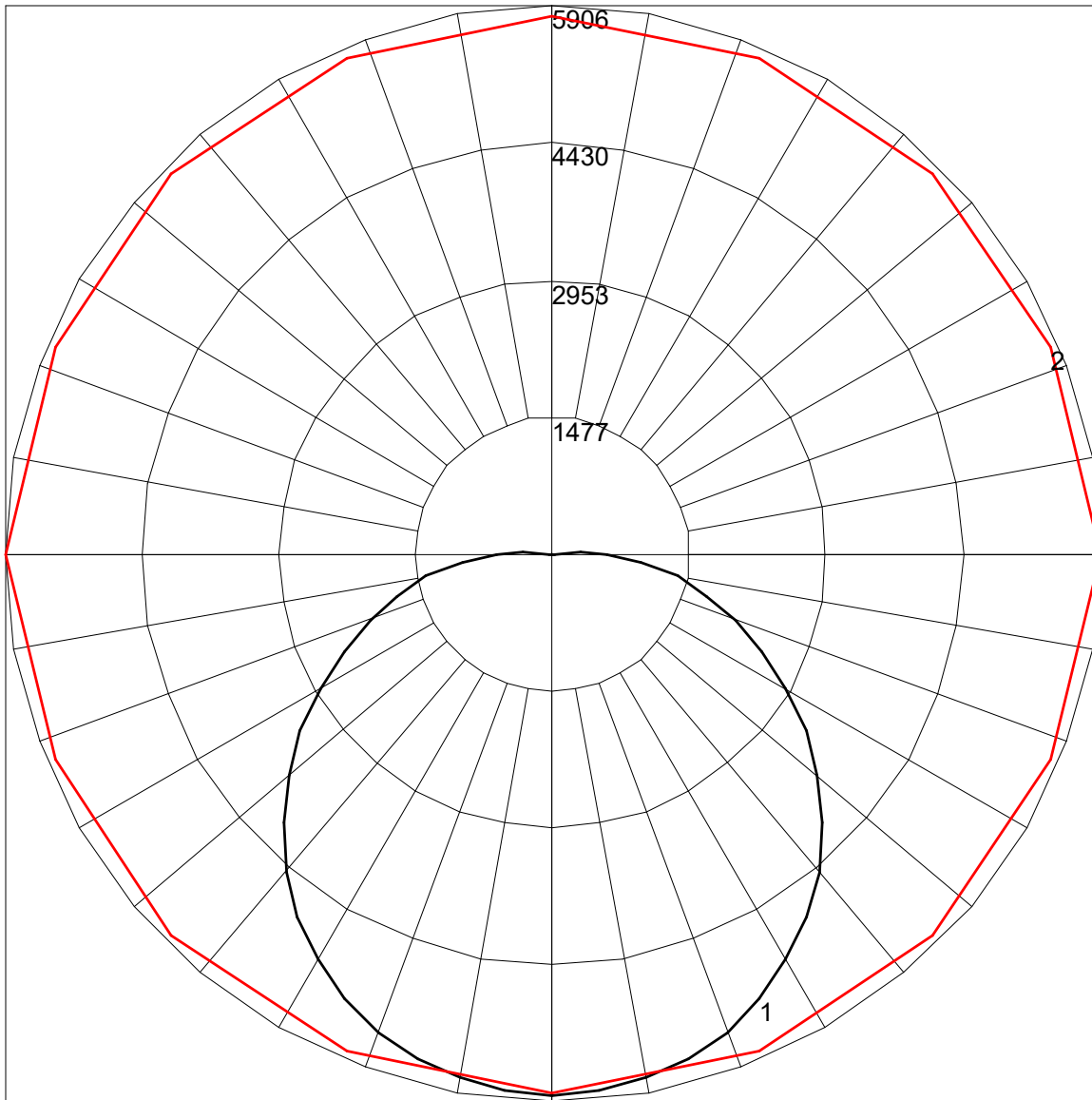
Reflectances

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	12.7	14.3	13.1	14.7	15.0	15.2	16.9	15.6	17.2	17.6
	3H	14.1	15.6	14.5	15.9	16.3	17.4	18.9	17.8	19.3	19.7
	4H	14.6	16.0	15.0	16.4	16.8	18.5	19.9	18.9	20.2	20.6
	6H	14.9	16.2	15.3	16.6	17.0	19.5	20.8	19.9	21.2	21.6
	8H	15.0	16.2	15.4	16.6	17.0	20.0	21.2	20.4	21.6	22.1
	12H	15.0	16.2	15.4	16.6	17.0	20.4	21.6	20.9	22.0	22.5
4H	2H	13.7	15.1	14.1	15.4	15.8	15.7	17.1	16.1	17.4	17.8
	3H	15.3	16.5	15.7	16.9	17.3	18.1	19.3	18.5	19.7	20.1
	4H	15.9	17.0	16.3	17.4	17.9	19.3	20.4	19.8	20.8	21.3
	6H	16.3	17.3	16.8	17.7	18.2	20.5	21.5	21.0	21.9	22.4
	8H	16.4	17.3	16.9	17.8	18.3	21.1	22.0	21.6	22.5	22.9
	12H	16.5	17.3	17.0	17.8	18.3	21.7	22.5	22.2	23.0	23.5
8H	4H	16.6	17.5	17.1	18.0	18.5	19.5	20.4	20.0	20.9	21.4
	6H	17.2	18.0	17.7	18.5	19.0	20.9	21.7	21.4	22.2	22.7
	8H	17.4	18.1	17.9	18.6	19.1	21.6	22.3	22.1	22.8	23.3
	12H	17.5	18.2	18.1	18.7	19.3	22.4	23.0	22.9	23.5	24.1
12H	4H	16.8	17.6	17.3	18.1	18.6	19.5	20.4	20.0	20.8	21.3
	6H	17.5	18.2	18.0	18.7	19.2	21.0	21.7	21.5	22.1	22.7
	8H	17.8	18.4	18.3	18.9	19.5	21.7	22.4	22.3	22.9	23.4

Maximum UGR = 24.1

POLAR GRAPH



Maximum Candela = 5906.32 Located At Horizontal Angle = 0, Vertical Angle = 5
1 - Vertical Plane Through Horizontal Angles (90 - 270)
2 - Horizontal Cone Through Vertical Angle (5) (Through Max. Cd.)