



IES INDOOR REPORT

PHOTOMETRIC FILENAME : 80R-8-L144-840-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-L144/840-DIM-UNV

CHARACTERISTICS

Lumens Per Lamp	N.A. (absolute)
Total Lamp Lumens	N.A. (absolute)
Luminaire Lumens	14583
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	134
Total Luminaire Watts	108.6
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	4956	4976	5277
55	4314	4500	4958
65	3591	4004	4503
75	2881	3651	4211
85	1458	3351	3728

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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	4989.703	4989.703	4989.703	4989.703	4989.703
5	5029.303	4951.752	4950.102	4941.852	4945.152
10	4936.902	4872.550	4880.800	4885.751	4890.701
15	4786.748	4725.697	4766.948	4794.999	4804.899
20	4572.244	4532.643	4608.545	4656.396	4686.096
25	4301.639	4293.388	4398.991	4483.142	4506.243
30	3989.782	4014.533	4159.736	4262.038	4293.388
35	3611.924	3679.576	3879.230	4021.133	4078.884
40	3237.367	3316.568	3547.573	3743.927	3809.928
45	2806.708	2946.961	3181.265	3413.920	3488.172
50	2412.350	2544.352	2847.959	3111.964	3174.665
55	2003.141	2158.244	2470.101	2750.607	2846.309
60	1631.884	1770.486	2128.544	2415.650	2471.751
65	1250.726	1425.629	1768.836	2026.242	2115.344
70	935.569	1100.573	1425.629	1711.085	1782.037
75	638.563	813.467	1173.174	1397.579	1478.430
80	367.958	569.262	919.069	1115.423	1179.774
85	128.703	364.658	640.213	785.416	826.667
90	3.300	145.203	358.057	478.510	503.260
95	0.000	16.500	97.352	207.904	265.655
100	0.000	8.250	13.200	8.250	21.450
105	0.000	0.000	9.900	6.600	3.300
110	0.000	0.000	6.600	6.600	6.600
115	0.000	0.000	3.300	1.650	1.650
120	0.000	0.000	3.300	0.000	0.000
125	0.000	0.000	1.650	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	1816.95	N.A.	12.50
0-30	3841.71	N.A.	26.30
0-40	6252.73	N.A.	42.90
0-60	10903.06	N.A.	74.80
0-80	13801.5	N.A.	94.60
0-90	14424.8	N.A.	98.90
10-90	13953.66	N.A.	95.70
20-40	4435.78	N.A.	30.40
20-50	6889.07	N.A.	47.20
40-70	6369.65	N.A.	43.70
60-80	2898.44	N.A.	19.90
70-80	1179.12	N.A.	8.10
80-90	623.30	N.A.	4.30
90-110	155.47	N.A.	1.10
90-120	157.43	N.A.	1.10
90-130	157.80	N.A.	1.10
90-150	157.80	N.A.	1.10
90-180	157.80	N.A.	1.10
110-180	2.34	N.A.	0.00
0-180	14582.6	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	471.14
10-20	1345.81
20-30	2024.76
30-40	2411.02
40-50	2453.3
50-60	2197.04
60-70	1719.32
70-80	1179.12
80-90	623.30
90-100	149.29
100-110	6.18
110-120	1.96
120-130	0.38
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	286	286	286	286	279	279	279	279	266	266	266	254	254	254	243	243	243	238
1	258	246	234	224	251	240	230	220	229	221	213	219	212	206	210	204	199	194
2	234	213	196	181	227	208	192	179	199	186	174	191	180	170	183	174	166	160
3	213	187	166	150	207	183	164	149	175	159	146	168	154	143	162	150	140	134
4	195	165	144	127	189	162	142	126	156	138	124	150	134	122	144	131	120	114
5	179	148	126	109	174	145	124	109	139	121	107	134	118	106	130	116	104	99
6	166	133	111	95	161	131	110	95	126	108	94	122	105	93	118	103	92	87
7	154	121	99	84	149	119	98	84	115	96	83	111	94	82	107	93	81	77
8	143	110	89	75	139	108	89	75	105	87	74	102	85	74	99	84	73	68
9	134	101	81	68	130	100	80	67	97	79	67	94	78	66	91	77	66	61
10	125	93	74	61	122	92	74	61	89	72	61	87	71	60	85	70	60	56

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UGR TABLE - CORRECTED

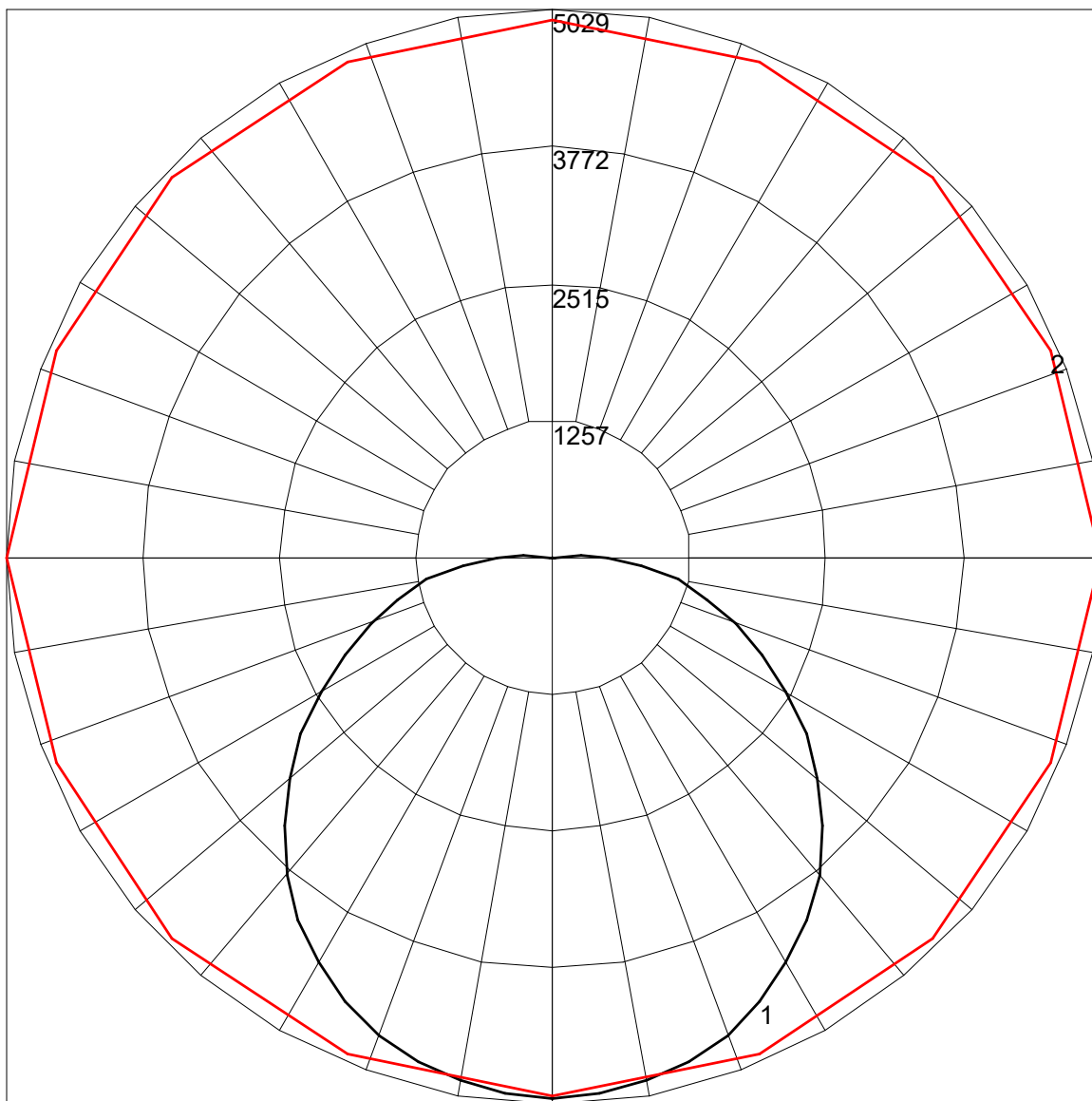
Reflectances

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	12.7	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 = 5029.303 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.)