



IES INDOOR REPORT

PHOTOMETRIC FILENAME : 80R-8-L104-840-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-L104/840-DIM-UNV

CHARACTERISTICS

Lumens Per Lamp	N.A. (absolute)
Total Lamp Lumens	N.A. (absolute)
Luminaire Lumens	10447
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	142
Total Luminaire Watts	73.4
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	3550	3565	3780
55	3090	3224	3552
65	2572	2868	3226
75	2064	2616	3017
85	1044	2400	2670

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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	3574.534	3574.534	3574.534	3574.534	3574.534
5	3602.904	3547.347	3546.165	3540.255	3542.619
10	3536.709	3490.608	3496.519	3500.065	3503.611
15	3429.142	3385.406	3414.957	3435.052	3442.144
20	3275.474	3247.105	3301.480	3335.759	3357.036
25	3081.617	3075.707	3151.359	3211.643	3228.192
30	2858.209	2875.940	2979.961	3053.248	3075.707
35	2587.518	2635.983	2779.011	2880.668	2922.040
40	2319.192	2375.931	2541.418	2682.083	2729.365
45	2010.676	2111.150	2279.002	2445.672	2498.864
50	1728.164	1822.729	2040.227	2229.356	2274.274
55	1435.015	1546.128	1769.536	1970.486	2039.045
60	1169.052	1268.345	1524.851	1730.529	1770.718
65	895.998	1021.296	1267.163	1451.564	1515.395
70	670.225	788.431	1021.296	1225.791	1276.619
75	457.455	582.753	840.441	1001.201	1059.121
80	263.598	407.809	658.405	799.069	845.169
85	92.200	261.234	458.637	562.658	592.210
90	2.364	104.021	256.506	342.796	360.527
95	0.000	11.821	69.741	148.939	190.311
100	0.000	5.910	9.456	5.910	15.367
105	0.000	0.000	7.092	4.728	2.364
110	0.000	0.000	4.728	4.728	4.728
115	0.000	0.000	2.364	1.182	1.182
120	0.000	0.000	2.364	0.000	0.000
125	0.000	0.000	1.182	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	1301.63	N.A.	12.50
0-30	2752.13	N.A.	26.30
0-40	4479.34	N.A.	42.90
0-60	7810.76	N.A.	74.80
0-80	9887.15	N.A.	94.60
0-90	10333.67	N.A.	98.90
10-90	9996.15	N.A.	95.70
20-40	3177.71	N.A.	30.40
20-50	4935.21	N.A.	47.20
40-70	4563.1	N.A.	43.70
60-80	2076.39	N.A.	19.90
70-80	844.70	N.A.	8.10
80-90	446.52	N.A.	4.30
90-110	111.37	N.A.	1.10
90-120	112.78	N.A.	1.10
90-130	113.05	N.A.	1.10
90-150	113.05	N.A.	1.10
90-180	113.05	N.A.	1.10
110-180	1.67	N.A.	0.00
0-180	10446.72	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	337.52
10-20	964.12
20-30	1450.5
30-40	1727.21
40-50	1757.5
50-60	1573.92
60-70	1231.69
70-80	844.70
80-90	446.52
90-100	106.95
100-110	4.43
110-120	1.41
120-130	0.27
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	205	205	205	205	200	200	200	200	190	190	190	182	182	182	174	174	174	170
1	185	176	168	161	180	172	164	158	164	158	152	157	152	147	150	146	143	139
2	168	153	140	130	163	149	138	128	143	133	125	137	129	122	131	125	119	115
3	153	134	119	108	148	131	117	106	125	114	104	120	110	102	116	107	100	96
4	140	119	103	91	136	116	101	90	111	99	89	107	96	87	103	94	86	82
5	129	106	90	78	125	104	89	78	100	87	77	96	85	76	93	83	75	71
6	119	95	80	68	115	94	79	68	90	77	67	87	75	66	84	74	66	62
7	110	86	71	60	107	85	70	60	82	69	59	79	68	59	77	66	58	55
8	103	79	64	54	100	78	63	54	75	62	53	73	61	53	71	60	52	49
9	96	72	58	48	93	71	58	48	69	57	48	67	56	48	65	55	47	44
10	90	67	53	44	88	66	53	44	64	52	44	62	51	43	61	50	43	40

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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	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

UGR Viewed Endwise

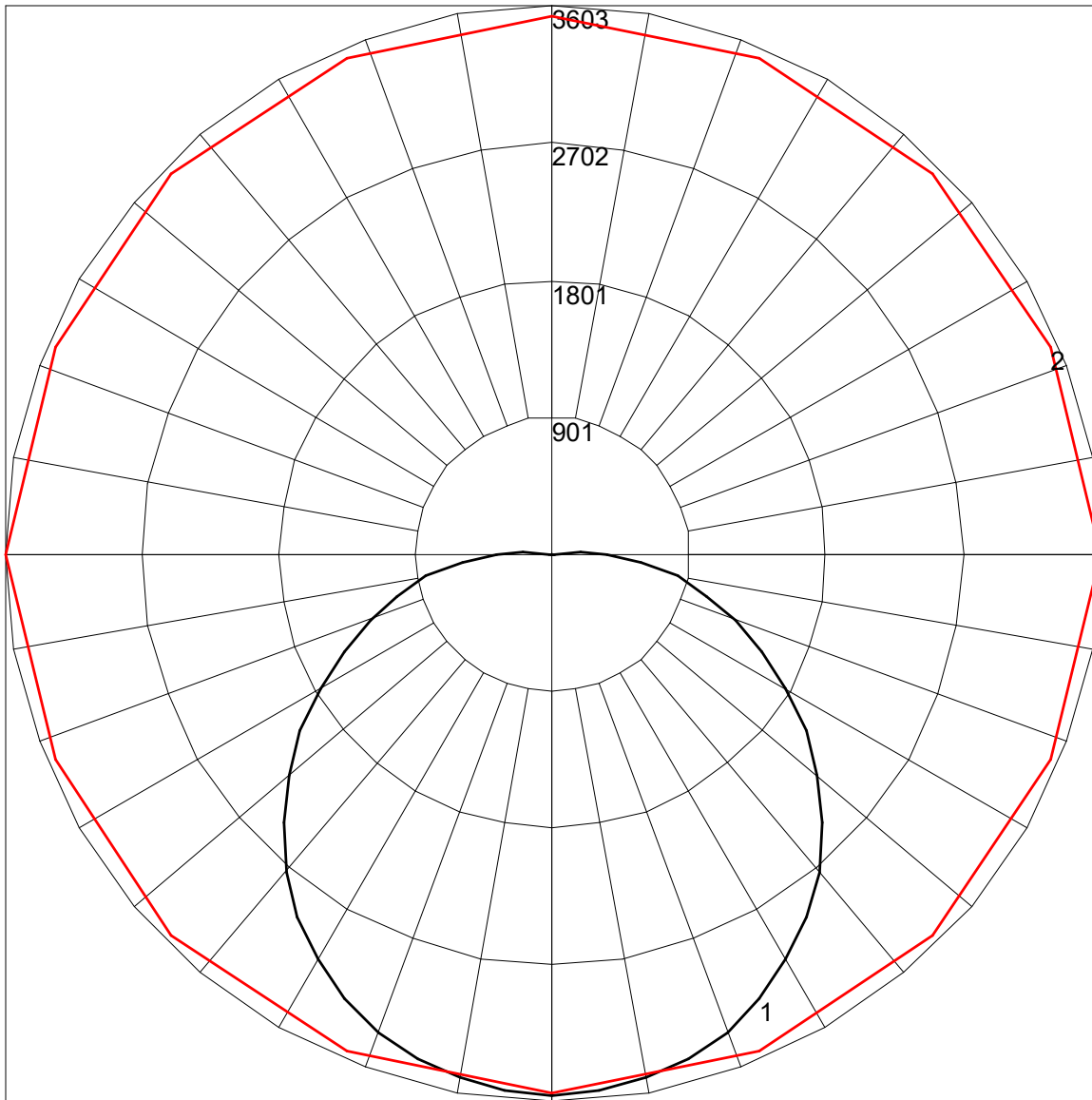
4H	2H	13.7	15.1	14.1	15.4	15.8	15.7	17.1	16.1	17.4	17.8
	3H	15.3	16.5	15.7	16.9	17.3	18.1	19.3	18.5	19.7	20.1
	4H	15.9	17.0	16.3	17.4	17.9	19.3	20.4	19.8	20.8	21.3
	6H	16.3	17.3	16.8	17.7	18.2	20.5	21.5	21.0	21.9	22.4
	8H	16.4	17.3	16.9	17.8	18.3	21.1	22.0	21.6	22.5	22.9
	12H	16.5	17.3	17.0	17.8	18.3	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 = 3602.904 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.)