



## IES INDOOR REPORT

PHOTOMETRIC FILENAME : 80R-4-L52-835-EM10W-DIM-UNV\_EMER MODE.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] 11-17-2021

[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-EM10W-DIM-UNV

### CHARACTERISTICS

Lumens Per Lamp	N.A. (absolute)
Total Lamp Lumens	N.A. (absolute)
Luminaire Lumens	1350
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	135
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	897	909	980
55	773	818	920
65	633	722	836
75	491	650	782
85	220	578	692

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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	461.914	461.914	461.914	461.914	461.914
5	465.580	458.401	458.248	457.485	457.790
10	457.026	451.069	451.833	452.291	452.749
15	443.126	437.475	441.293	443.890	444.807
20	423.269	419.603	426.629	431.059	433.809
25	398.218	397.454	407.230	415.020	417.159
30	369.348	371.640	385.081	394.552	397.454
35	334.369	340.631	359.114	372.251	377.597
40	299.695	307.026	328.411	346.589	352.699
45	259.827	272.811	294.501	316.039	322.912
50	223.320	235.540	263.646	288.086	293.890
55	185.438	199.796	228.666	254.633	263.493
60	151.069	163.900	197.047	223.625	228.819
65	115.784	131.976	163.747	187.576	195.825
70	86.609	101.884	131.976	158.401	164.969
75	59.114	75.306	108.605	129.379	136.864
80	34.063	52.699	85.081	103.259	109.216
85	11.914	33.758	59.267	72.709	76.527
90	0.305	13.442	33.147	44.297	46.589
95	0.000	1.527	9.012	19.246	24.593
100	0.000	0.764	1.222	0.764	1.986
105	0.000	0.000	0.916	0.611	0.305
110	0.000	0.000	0.611	0.611	0.611
115	0.000	0.000	0.305	0.153	0.153
120	0.000	0.000	0.305	0.000	0.000
125	0.000	0.000	0.153	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	168.20	N.A.	12.50
0-30	355.64	N.A.	26.30
0-40	578.84	N.A.	42.90
0-60	1009.33	N.A.	74.80
0-80	1277.65	N.A.	94.60
0-90	1335.35	N.A.	98.90
10-90	1291.74	N.A.	95.70
20-40	410.64	N.A.	30.40
20-50	637.75	N.A.	47.20
40-70	589.66	N.A.	43.70
60-80	268.32	N.A.	19.90
70-80	109.16	N.A.	8.10
80-90	57.70	N.A.	4.30
90-110	14.39	N.A.	1.10
90-120	14.57	N.A.	1.10
90-130	14.61	N.A.	1.10
90-150	14.61	N.A.	1.10
90-180	14.61	N.A.	1.10
110-180	0.22	N.A.	0.00
0-180	1349.96	N.A.	100.00

Total Luminaire Efficiency = N.A. %

**ZONAL LUMEN SUMMARY**

Zone	Lumens
0-10	43.62
10-20	124.59
20-30	187.44
30-40	223.20
40-50	227.11
50-60	203.39
60-70	159.16
70-80	109.16
80-90	57.70
90-100	13.82
100-110	0.57
110-120	0.18
120-130	0.03
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

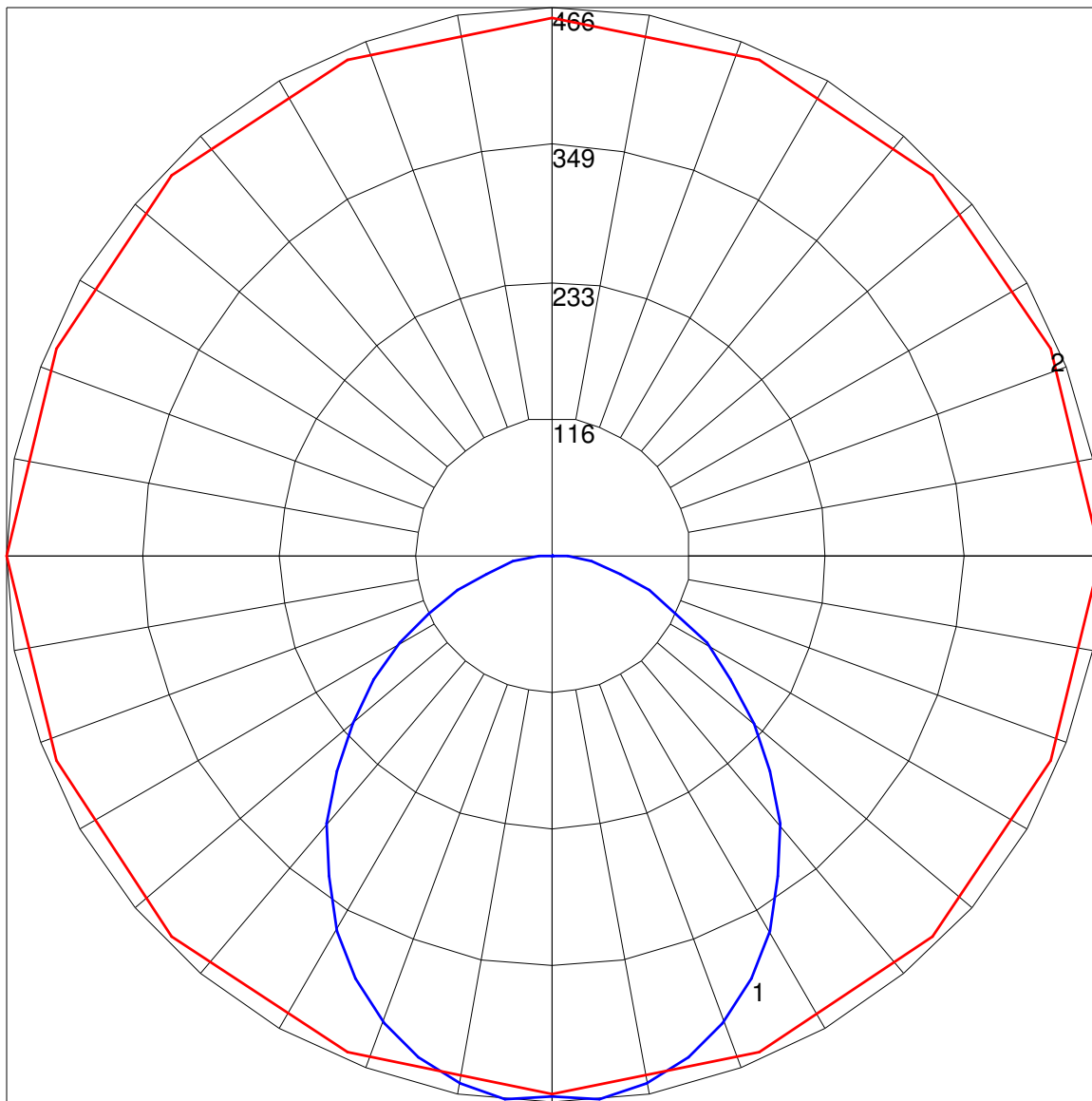
X=2H	Y=2H	9.8	11.4	10.2	11.8	12.1	12.2	13.9	12.6	14.2	14.6
	3H	11.2	12.7	11.6	13.0	13.4	14.4	15.9	14.8	16.2	16.6
	4H	11.7	13.1	12.1	13.4	13.8	15.4	16.8	15.8	17.2	17.6
	6H	12.0	13.3	12.4	13.7	14.1	16.4	17.7	16.8	18.1	18.5
	8H	12.0	13.3	12.5	13.7	14.1	16.8	18.1	17.3	18.5	18.9
	12H	12.1	13.3	12.5	13.7	14.1	17.2	18.4	17.7	18.9	19.3

### UGR Viewed Endwise

4H	2H	10.7	12.1	11.1	12.5	12.9	12.7	14.1	13.1	14.4	14.8
	3H	12.4	13.6	12.8	14.0	14.4	15.1	16.3	15.5	16.7	17.1
	4H	13.0	14.0	13.4	14.5	14.9	16.2	17.3	16.7	17.8	18.2
	6H	13.4	14.3	13.8	14.8	15.3	17.4	18.4	17.9	18.8	19.3
	8H	13.5	14.4	14.0	14.9	15.3	18.0	18.9	18.4	19.3	19.8
	12H	13.5	14.4	14.0	14.9	15.4	18.5	19.3	19.0	19.8	20.3
8H	4H	13.7	14.6	14.1	15.0	15.5	16.5	17.4	16.9	17.8	18.3
	6H	14.3	15.0	14.8	15.5	16.0	17.8	18.6	18.3	19.1	19.6
	8H	14.5	15.1	15.0	15.7	16.2	18.5	19.2	19.0	19.7	20.2
	12H	14.6	15.2	15.1	15.7	16.3	19.2	19.8	19.7	20.3	20.9
12H	4H	13.8	14.6	14.3	15.1	15.6	16.5	17.3	17.0	17.8	18.3
	6H	14.5	15.2	15.1	15.7	16.3	17.9	18.6	18.4	19.0	19.6
	8H	14.8	15.4	15.3	16.0	16.5	18.6	19.2	19.1	19.7	20.3

Maximum UGR = 20.9

POLAR GRAPH



Maximum Candela = 465.58 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.)