



IES INDOOR REPORT

PHOTOMETRIC FILENAME : GA-8-L70-840-N-(L55)-DRV-UNV_.IES

DESCRIPTION INFORMATION (From Photometric File)

IESNA:LM-63-2002
 [TEST] GEN FROM BALLABS TEST NO. 19576.0
 [TESTLAB] BUILDING ACOUSTICS & LIGHTING LABORATORIES, INC
 [ISSUEDATE] 03-24-2022
 [MANUFAC] WILLIAMS INDOOR
 [OTHER] H.E. WILLIAMS, INC - CARTHAGE, MO
 [LUMINAIRE] 8' LED STRIP LUMINAIRE
 [MORE] WHITE FLAT REFLECTOR
 [MORE] w/CLEAR ACRYLIC ROD LED DIFFUSERS
 [LUMCAT] GA-8-L70-840-(L55)-DRV-UNV
 [LAMPCAT] HLM 80 CRI 4000K CCT

CHARACTERISTICS

Lumens Per Lamp	N.A. (absolute)
Total Lamp Lumens	N.A. (absolute)
Luminaire Lumens	5478
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	149
Total Luminaire Watts	36.8
Ballast Factor	1.00
CIE Type	Direct
Spacing Criterion (0-180)	1.46
Spacing Criterion (90-270)	0.58
Spacing Criterion (Diagonal)	0.68
Basic Luminous Shape	Rectangular
Luminous Length (0-180)	8.00 ft
Luminous Width (90-270)	0.39 ft
Luminous Height	0.00 ft

LUMINANCE DATA (cd/sq.m)

Angle In Degrees	Average 0-Deg	Average 45-Deg	Average 90-Deg
45	22922	1576	1084
55	16534	928	736
65	9842	705	705
75	4732	1002	1247
85	1709	2848	3988

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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	5507.231	5507.231	5507.231	5507.231	5507.231
5	5553.052	5514.341	5440.079	5344.487	5337.377
10	5609.934	5414.799	5042.699	4670.600	4581.327
15	5631.264	5195.173	4354.591	3698.875	3485.569
20	5571.223	4535.506	2833.803	1936.340	1624.282
25	5542.782	3886.900	1890.518	1152.640	921.954
30	5652.595	2986.276	1102.868	634.386	538.794
35	5230.724	1964.780	652.557	414.761	379.210
40	5011.098	1177.130	421.871	297.838	280.457
45	4642.159	716.548	319.168	237.796	219.626
50	3734.426	514.303	237.796	184.075	173.804
55	2716.090	376.050	152.474	120.873	120.873
60	1872.348	237.796	99.543	92.432	99.543
65	1191.351	120.873	85.322	85.322	85.322
70	673.887	92.432	81.372	85.322	88.482
75	350.769	88.482	74.262	92.432	92.432
80	162.744	85.322	81.372	99.543	99.543
85	42.661	74.262	71.102	92.432	99.543
90	3.160	42.661	42.661	60.042	67.152
95	0.000	0.000	17.380	35.551	35.551
100	0.000	0.000	3.160	10.270	10.270
105	0.000	0.000	0.000	3.160	3.160
110	0.000	0.000	0.000	0.000	0.000
115	0.000	0.000	0.000	0.000	0.000
120	0.000	0.000	0.000	0.000	0.000
125	0.000	0.000	0.000	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	1702.89	N.A.	31.10
0-30	2876.58	N.A.	52.50
0-40	3812.27	N.A.	69.60
0-60	4997.98	N.A.	91.20
0-80	5371.4	N.A.	98.10
0-90	5452.88	N.A.	99.50
10-90	4946.73	N.A.	90.30
20-40	2109.38	N.A.	38.50
20-50	2824.27	N.A.	51.60
40-70	1427.66	N.A.	26.10
60-80	373.42	N.A.	6.80
70-80	131.47	N.A.	2.40
80-90	81.48	N.A.	1.50
90-110	25.13	N.A.	0.50
90-120	25.13	N.A.	0.50
90-130	25.13	N.A.	0.50
90-150	25.13	N.A.	0.50
90-180	25.13	N.A.	0.50
110-180	0.00	N.A.	0.00
0-180	5478.01	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	506.15
10-20	1196.73
20-30	1173.69
30-40	935.69
40-50	714.89
50-60	470.82
60-70	241.95
70-80	131.47
80-90	81.48
90-100	23.26
100-110	1.87
110-120	0.00
120-130	0.00
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	102	102	102	100
1	111	108	104	101	109	105	102	100	101	99	97	97	95	94	94	92	91	89
2	104	98	93	88	102	96	91	87	92	89	85	89	86	83	86	84	81	79
3	97	89	83	78	95	88	82	77	85	80	76	82	78	75	80	76	73	71
4	91	82	75	70	89	81	74	69	78	73	68	76	71	67	74	70	67	65
5	86	75	68	63	84	74	68	63	72	67	62	71	65	61	69	64	61	59
6	81	70	63	58	79	69	62	57	67	61	57	66	60	56	64	60	56	54
7	76	65	58	53	74	64	57	53	63	57	52	61	56	52	60	55	52	50
8	72	61	54	49	70	60	53	49	59	53	49	58	52	48	57	52	48	46
9	68	57	50	45	67	56	50	45	55	49	45	54	49	45	53	48	45	43
10	65	54	47	43	63	53	47	42	52	46	42	51	46	42	50	46	42	40

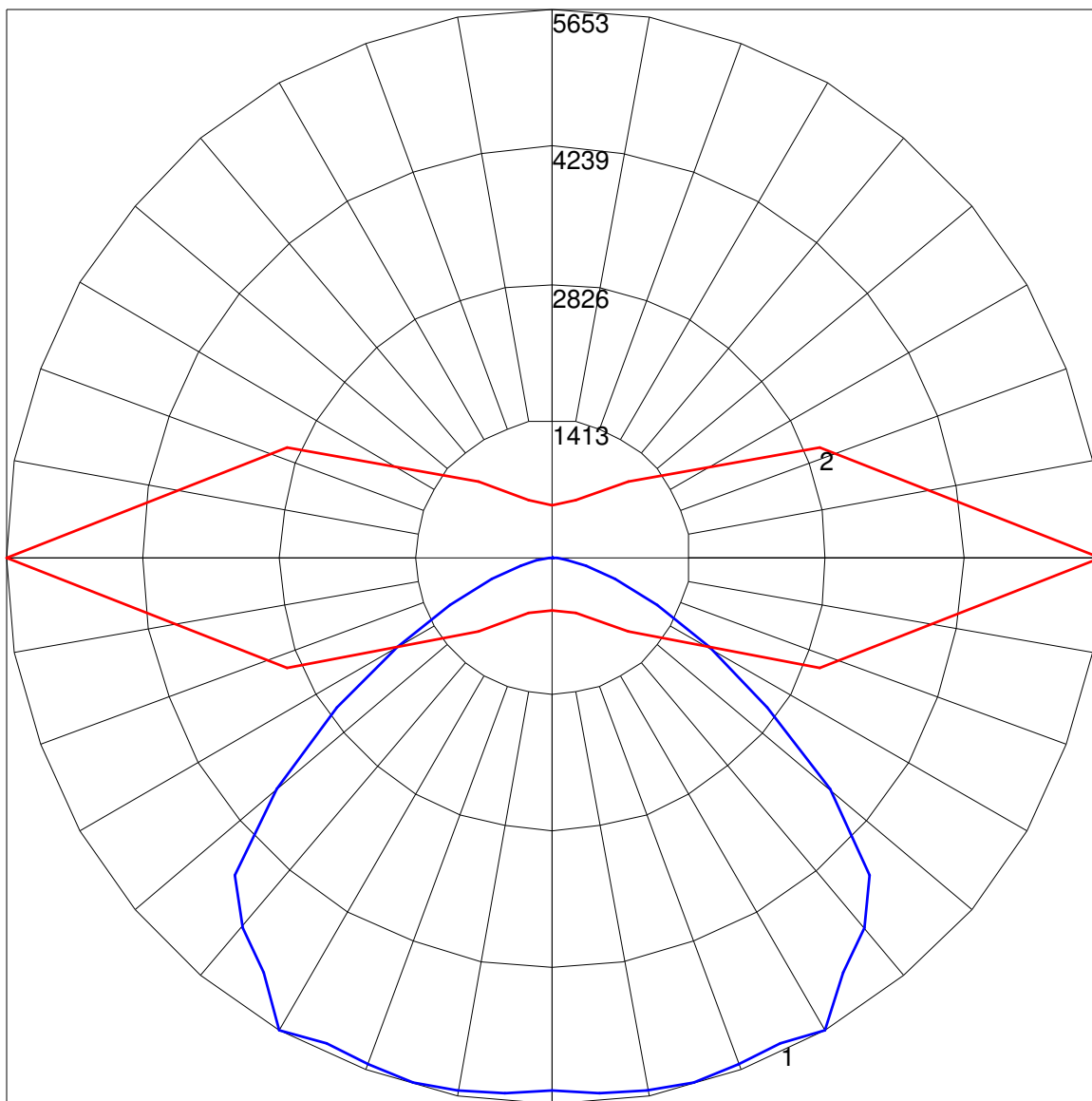
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UGR TABLE - CORRECTED

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					UGR Viewed Endwise				
X=2H	Y=2H	16.6	17.9	17.0	18.2	18.5	6.0	6.0	6.0	6.0	6.0
	3H	18.7	19.9	19.1	20.2	20.6	6.6	7.8	7.0	8.1	8.5
	4H	19.4	20.4	19.8	20.8	21.2	8.5	9.6	8.9	9.9	10.3
	6H	19.7	20.8	20.2	21.1	21.5	10.7	11.8	11.2	12.1	12.5
	8H	19.8	20.8	20.3	21.2	21.6	12.0	12.9	12.4	13.3	13.7
	12H	19.9	20.8	20.3	21.2	21.6	13.4	14.3	13.8	14.7	15.1
4H	2H	16.4	17.5	16.8	17.8	18.2	6.0	6.0	6.0	6.1	6.5
	3H	18.5	19.4	19.0	19.8	20.2	7.7	8.6	8.1	9.0	9.4
	4H	19.2	20.0	19.6	20.4	20.9	9.8	10.6	10.2	11.0	11.5
	6H	19.7	20.4	20.2	20.8	21.3	12.3	13.0	12.8	13.5	14.0
	8H	19.9	20.5	20.3	21.0	21.4	13.7	14.3	14.1	14.8	15.2
	12H	20.0	20.6	20.5	21.0	21.5	15.2	15.7	15.7	16.2	16.7
8H	4H	19.1	19.8	19.6	20.2	20.7	10.4	11.1	10.9	11.6	12.0
	6H	19.7	20.2	20.2	20.7	21.2	13.3	13.8	13.8	14.3	14.8
	8H	19.9	20.4	20.4	20.9	21.4	14.8	15.3	15.3	15.8	16.3
	12H	20.1	20.6	20.6	21.0	21.6	16.5	17.0	17.0	17.5	18.0
12H	4H	19.1	19.7	19.6	20.1	20.6	10.7	11.3	11.2	11.8	12.2
	6H	19.7	20.2	20.2	20.6	21.2	13.5	14.0	14.1	14.5	15.0
	8H	20.0	20.4	20.5	20.9	21.5	15.2	15.6	15.7	16.1	16.7

Maximum UGR = 21.6

POLAR GRAPH



Maximum Candela = 5652.595 Located At Horizontal Angle = 0, Vertical Angle = 30
1 - Vertical Plane Through Horizontal Angles (0 - 180) (Through Max. Cd.)
2 - Horizontal Cone Through Vertical Angle (30) (Through Max. Cd.)