



IES INDOOR REPORT
PHOTOMETRIC FILENAME : GA-4-L35-827-N-DIM-UNV_.IES

DESCRIPTION INFORMATION (From Photometric File)

IESNA:LM-63-2002
 [TEST] GEN FROM BALLABS TEST NO. 20801.0
 [TESTLAB] BUILDING ACOUSTICS & LIGHTING LABORATORIES, INC
 [ISSUEDATE] 2023-05-11
 [MANUFAC] WILLIAMS INDOOR
 [OTHER] H.E. WILLIAMS, INC - CARTHAGE, MO
 [LUMINAIRE] 4'LED STRIP AISLE LUMINAIRE
 [MORE] WHITE REFLECTOR w/.375"DIA ACRYLIC ROD OPTIC
 [LUMCAT] GA-4-L35-827-N-DIM-UNV
 [LAMPCAT] HLM 80 CRI 4000K CCT
 [_SEARCH_SOURCETYPE] LED
 [_SEARCH_APPLICATION] INDOOR
 [_SEARCH_MOUNTING] SURFACE, SUSPENDED

CHARACTERISTICS

Lumens Per Lamp	N.A. (absolute)
Total Lamp Lumens	N.A. (absolute)
Luminaire Lumens	3295
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	129
Total Luminaire Watts	25.6
Ballast Factor	1.00
CIE Type	Direct
Spacing Criterion (0-180)	1.42
Spacing Criterion (90-270)	0.56
Spacing Criterion (Diagonal)	0.72
Basic Luminous Shape	Rectangular w/Sides
Luminous Length (0-180)	4.00 ft
Luminous Width (90-270)	0.38 ft
Luminous Height	0.03 ft

LUMINANCE DATA (cd/sq.m)

Angle In Degrees	Average 0-Deg	Average 45-Deg	Average 90-Deg
45	23315	2240	1422
55	17323	1078	953
65	10757	871	871
75	5402	1245	1469
85	1350	2515	2878

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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	3178.554	3178.554	3178.554	3178.554	3178.554
5	3272.021	3174.430	3091.273	2983.374	2893.343
10	3262.399	3087.836	2840.425	2582.017	2432.882
15	3252.777	2940.076	2415.701	2009.533	1826.724
20	3231.473	2661.051	1838.407	1341.522	1188.951
25	3188.176	2294.744	1255.615	808.899	687.942
30	3101.581	1819.164	726.428	450.152	395.172
35	2945.575	1353.892	429.534	283.149	261.157
40	2685.105	878.999	293.458	213.736	188.995
45	2317.424	573.858	235.041	173.188	151.883
50	1876.893	405.480	181.435	137.451	120.270
55	1401.313	320.948	94.154	90.030	85.220
60	997.207	183.497	63.227	64.602	66.664
65	644.645	95.528	58.417	61.853	60.478
70	385.550	74.224	55.668	63.915	63.915
75	200.678	64.602	55.668	69.413	69.413
80	85.220	58.417	58.417	63.227	63.915
85	17.869	51.544	52.919	65.289	68.038
90	2.749	21.305	23.367	37.112	40.548
95	1.375	0.687	4.811	24.054	25.428
100	0.000	0.000	0.000	0.000	0.000
105	0.000	0.000	0.000	0.000	0.000
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	972.01	N.A.	29.50
0-30	1697.56	N.A.	51.50
0-40	2278.15	N.A.	69.10
0-60	2992.85	N.A.	90.80
0-80	3228.44	N.A.	98.00
0-90	3281.83	N.A.	99.60
10-90	2995.11	N.A.	90.90
20-40	1306.14	N.A.	39.60
20-50	1738.46	N.A.	52.80
40-70	862.97	N.A.	26.20
60-80	235.59	N.A.	7.20
70-80	87.32	N.A.	2.70
80-90	53.39	N.A.	1.60
90-110	12.94	N.A.	0.40
90-120	12.94	N.A.	0.40
90-130	12.94	N.A.	0.40
90-150	12.94	N.A.	0.40
90-180	12.94	N.A.	0.40
110-180	0.00	N.A.	0.00
0-180	3294.77	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	286.72
10-20	685.29
20-30	725.55
30-40	580.59
40-50	432.32
50-60	282.39
60-70	148.26
70-80	87.32
80-90	53.39
90-100	12.94
100-110	0.00
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	107	104	101	109	105	102	99	101	99	96	97	95	93	94	92	91	89
2	104	97	92	88	101	96	91	87	92	88	85	89	86	83	86	83	81	79
3	97	89	82	77	95	87	81	77	84	79	75	82	78	74	79	76	73	71
4	91	81	74	69	89	80	74	69	78	72	68	76	71	67	73	69	66	64
5	85	75	68	62	83	74	67	62	72	66	61	70	65	61	68	64	60	58
6	80	69	62	57	78	68	62	57	67	61	56	65	60	56	64	59	55	53
7	75	64	57	52	74	64	57	52	62	56	52	61	55	51	60	55	51	49
8	71	60	53	48	70	59	53	48	58	52	48	57	52	47	56	51	47	46
9	67	56	49	45	66	56	49	45	55	49	44	54	48	44	53	48	44	42
10	64	53	46	42	63	52	46	42	51	46	41	51	45	41	50	45	41	40

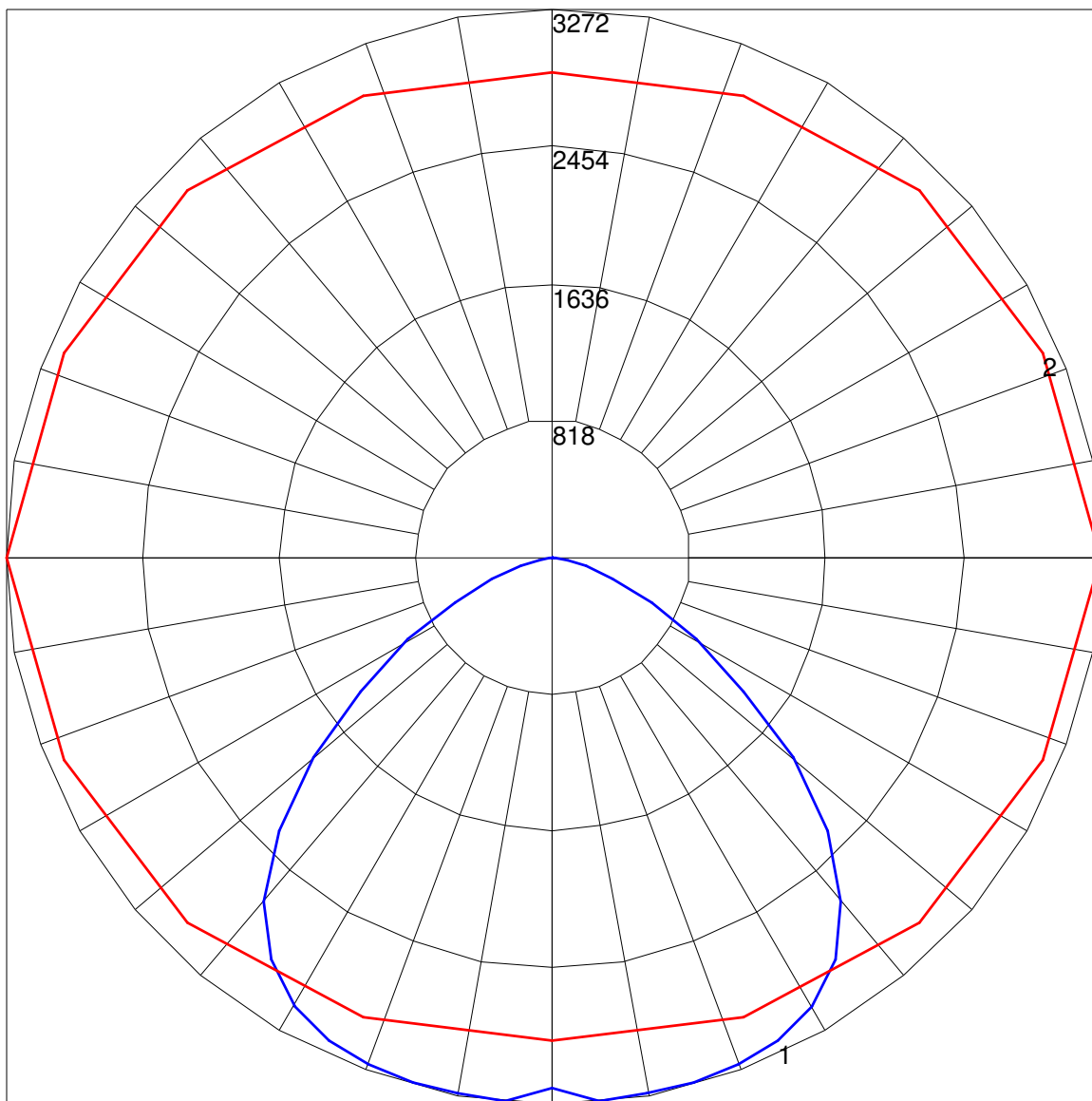
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UGR TABLE - CORRECTED

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	17.2	18.5	17.6	18.8	19.2	5.6	6.9	6.0	7.3	7.6
	3H	19.0	20.1	19.4	20.5	20.9	8.4	9.5	8.8	9.9	10.3
	4H	19.5	20.6	19.9	20.9	21.4	10.3	11.4	10.7	11.8	12.2
	6H	19.8	20.8	20.2	21.2	21.6	12.2	13.2	12.7	13.6	14.1
	8H	19.8	20.8	20.3	21.2	21.6	13.3	14.3	13.8	14.7	15.1
	12H	19.8	20.7	20.3	21.1	21.6	14.6	15.5	15.1	15.9	16.4
4H	2H	17.0	18.1	17.4	18.4	18.8	6.2	7.3	6.6	7.6	8.1
	3H	18.8	19.7	19.2	20.1	20.5	9.4	10.2	9.8	10.7	11.1
	4H	19.3	20.2	19.8	20.6	21.1	11.5	12.3	12.0	12.8	13.2
	6H	19.7	20.4	20.2	20.9	21.4	13.7	14.4	14.2	14.8	15.3
	8H	19.8	20.5	20.3	20.9	21.4	14.9	15.5	15.4	16.0	16.5
	12H	19.9	20.4	20.4	20.9	21.4	16.3	16.9	16.8	17.4	17.9
8H	4H	19.3	19.9	19.8	20.4	20.9	12.1	12.7	12.6	13.2	13.7
	6H	19.7	20.3	20.3	20.8	21.3	14.5	15.0	15.0	15.5	16.0
	8H	19.9	20.4	20.4	20.9	21.4	15.8	16.3	16.4	16.9	17.4
	12H	20.0	20.4	20.6	21.0	21.5	17.5	17.9	18.0	18.4	19.0
12H	4H	19.3	19.8	19.8	20.3	20.8	12.2	12.8	12.7	13.3	13.8
	6H	19.7	20.2	20.3	20.7	21.3	14.7	15.2	15.2	15.7	16.2
	8H	20.0	20.4	20.5	20.9	21.5	16.2	16.6	16.7	17.1	17.7

Maximum UGR = 21.6

POLAR GRAPH



Maximum Candela = 3272.021 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.)