



IES INDOOR REPORT
PHOTOMETRIC FILENAME : GA-4-L55-835-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-L55-835-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	5337
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	142
Total Luminaire Watts	37.5
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	37767	3628	2304
55	28062	1747	1543
65	17425	1412	1412
75	8751	2017	2380
85	2187	4074	4661

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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	5148.800	5148.800	5148.800	5148.800	5148.800
5	5300.202	5142.120	5007.416	4832.635	4686.799
10	5284.617	5001.850	4601.079	4182.495	3940.919
15	5269.031	4762.500	3913.088	3255.155	2959.029
20	5234.520	4310.519	2977.954	2173.072	1925.929
25	5164.385	3717.155	2033.915	1310.300	1114.367
30	5024.115	2946.783	1176.709	729.181	640.121
35	4771.406	2193.110	695.784	458.661	423.037
40	4349.483	1423.852	475.359	346.222	306.145
45	3753.892	929.567	380.733	280.540	246.029
50	3040.297	656.820	293.899	222.651	194.819
55	2269.925	519.890	152.516	145.836	138.043
60	1615.331	297.239	102.419	104.646	107.986
65	1044.232	154.742	94.627	100.193	97.966
70	624.535	120.231	90.174	103.533	103.533
75	325.070	104.646	90.174	112.439	112.439
80	138.043	94.627	94.627	102.419	103.533
85	28.945	83.494	85.721	105.759	110.212
90	4.453	34.511	37.851	60.116	65.682
95	2.227	1.113	7.793	38.964	41.190
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	1574.51	N.A.	29.50
0-30	2749.8	N.A.	51.50
0-40	3690.27	N.A.	69.10
0-60	4847.99	N.A.	90.80
0-80	5229.61	N.A.	98.00
0-90	5316.09	N.A.	99.60
10-90	4851.65	N.A.	90.90
20-40	2115.76	N.A.	39.60
20-50	2816.05	N.A.	52.80
40-70	1397.88	N.A.	26.20
60-80	381.62	N.A.	7.20
70-80	141.45	N.A.	2.70
80-90	86.48	N.A.	1.60
90-110	20.96	N.A.	0.40
90-120	20.96	N.A.	0.40
90-130	20.96	N.A.	0.40
90-150	20.96	N.A.	0.40
90-180	20.96	N.A.	0.40
110-180	0.00	N.A.	0.00
0-180	5337.05	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	464.44
10-20	1110.07
20-30	1175.29
30-40	940.48
40-50	700.29
50-60	457.43
60-70	240.17
70-80	141.45
80-90	86.48
90-100	20.96
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

X=2H	Y=2H	18.9	20.2	19.3	20.5	20.9	7.3	8.6	7.7	9.0	9.3
	3H	20.7	21.8	21.1	22.2	22.6	10.1	11.2	10.5	11.6	12.0
	4H	21.2	22.3	21.6	22.6	23.1	12.0	13.1	12.4	13.5	13.9
	6H	21.5	22.5	21.9	22.9	23.3	13.9	14.9	14.4	15.3	15.8
	8H	21.5	22.5	22.0	22.9	23.3	15.0	16.0	15.5	16.4	16.8
	12H	21.5	22.4	22.0	22.8	23.3	16.3	17.2	16.8	17.6	18.1

UGR Viewed Endwise

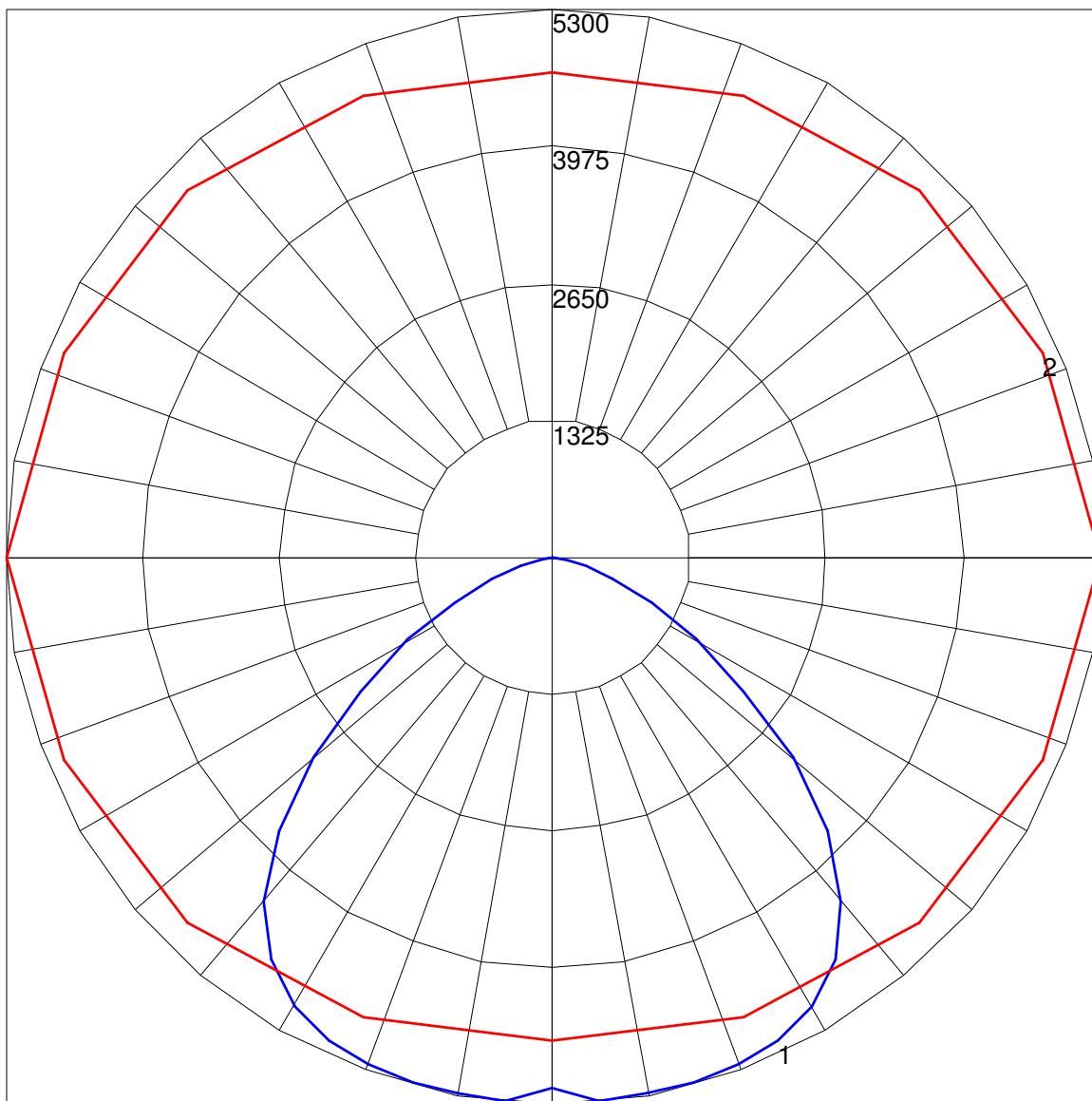
4H	2H	18.7	19.8	19.1	20.1	20.5	7.9	9.0	8.3	9.3	9.8
	3H	20.5	21.4	20.9	21.8	22.2	11.1	11.9	11.5	12.4	12.8
	4H	21.0	21.9	21.5	22.3	22.8	13.2	14.0	13.7	14.5	14.9
	6H	21.4	22.1	21.9	22.6	23.1	15.4	16.1	15.9	16.5	17.0
	8H	21.5	22.2	22.0	22.6	23.1	16.6	17.2	17.1	17.7	18.2
	12H	21.6	22.1	22.1	22.6	23.1	18.0	18.6	18.5	19.1	19.6

8H	4H	21.0	21.6	21.5	22.1	22.6	13.8	14.4	14.3	14.9	15.4
	6H	21.4	22.0	22.0	22.5	23.0	16.2	16.7	16.7	17.2	17.7
	8H	21.6	22.1	22.1	22.6	23.1	17.5	18.0	18.1	18.6	19.1
	12H	21.7	22.1	22.3	22.7	23.2	19.2	19.6	19.7	20.1	20.7

12H	4H	21.0	21.5	21.5	22.0	22.5	13.9	14.5	14.4	15.0	15.5
	6H	21.4	21.9	22.0	22.4	23.0	16.4	16.9	16.9	17.4	17.9
	8H	21.7	22.1	22.2	22.6	23.2	17.9	18.3	18.4	18.8	19.4

Maximum UGR = 23.3

POLAR GRAPH



Maximum Candela = 5300.202 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.)