



IES INDOOR REPORT
PHOTOMETRIC FILENAME : GA-4-L55-827-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-L55-827-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	5172
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	138
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	36599	3516	2233
55	27194	1693	1496
65	16886	1368	1368
75	8481	1954	2307
85	2119	3948	4517

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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	4989.561	4989.561	4989.561	4989.561	4989.561
5	5136.281	4983.088	4852.551	4683.175	4541.849
10	5121.178	4847.156	4458.780	4053.142	3819.037
15	5106.074	4615.209	3792.067	3154.482	2867.514
20	5072.631	4177.207	2885.854	2105.865	1866.366
25	5004.665	3602.193	1971.012	1269.776	1079.903
30	4868.733	2855.647	1140.317	706.630	620.324
35	4623.840	2125.283	674.265	444.476	409.953
40	4214.966	1379.816	460.658	335.514	296.677
45	3637.795	900.818	368.958	271.864	238.420
50	2946.268	636.506	284.810	215.765	188.794
55	2199.722	503.811	147.799	141.326	133.774
60	1565.374	288.046	99.252	101.409	104.646
65	1011.937	149.957	91.700	97.094	94.937
70	605.220	116.513	87.385	100.331	100.331
75	315.017	101.409	87.385	108.961	108.961
80	133.774	91.700	91.700	99.252	100.331
85	28.049	80.912	83.069	102.488	106.804
90	4.315	33.444	36.680	58.256	63.651
95	2.158	1.079	7.552	37.759	39.916
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	1525.81	N.A.	29.50
0-30	2664.75	N.A.	51.50
0-40	3576.14	N.A.	69.10
0-60	4698.05	N.A.	90.80
0-80	5067.87	N.A.	98.00
0-90	5151.67	N.A.	99.60
10-90	4701.6	N.A.	90.90
20-40	2050.33	N.A.	39.60
20-50	2728.96	N.A.	52.80
40-70	1354.65	N.A.	26.20
60-80	369.82	N.A.	7.20
70-80	137.08	N.A.	2.70
80-90	83.80	N.A.	1.60
90-110	20.31	N.A.	0.40
90-120	20.31	N.A.	0.40
90-130	20.31	N.A.	0.40
90-150	20.31	N.A.	0.40
90-180	20.31	N.A.	0.40
110-180	0.00	N.A.	0.00
0-180	5171.98	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	450.08
10-20	1075.74
20-30	1138.94
30-40	911.39
40-50	678.63
50-60	443.28
60-70	232.74
70-80	137.08
80-90	83.80
90-100	20.31
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	18.8	20.1	19.2	20.4	20.8	7.2	8.5	7.6	8.9	9.2
	3H	20.6	21.7	21.0	22.1	22.5	10.0	11.1	10.4	11.5	11.9
	4H	21.1	22.2	21.5	22.5	23.0	11.9	13.0	12.3	13.4	13.8
	6H	21.4	22.4	21.8	22.8	23.2	13.8	14.8	14.3	15.2	15.7
	8H	21.4	22.4	21.9	22.8	23.2	14.9	15.9	15.4	16.3	16.7
	12H	21.4	22.3	21.9	22.7	23.2	16.2	17.1	16.7	17.5	18.0

UGR Viewed Endwise

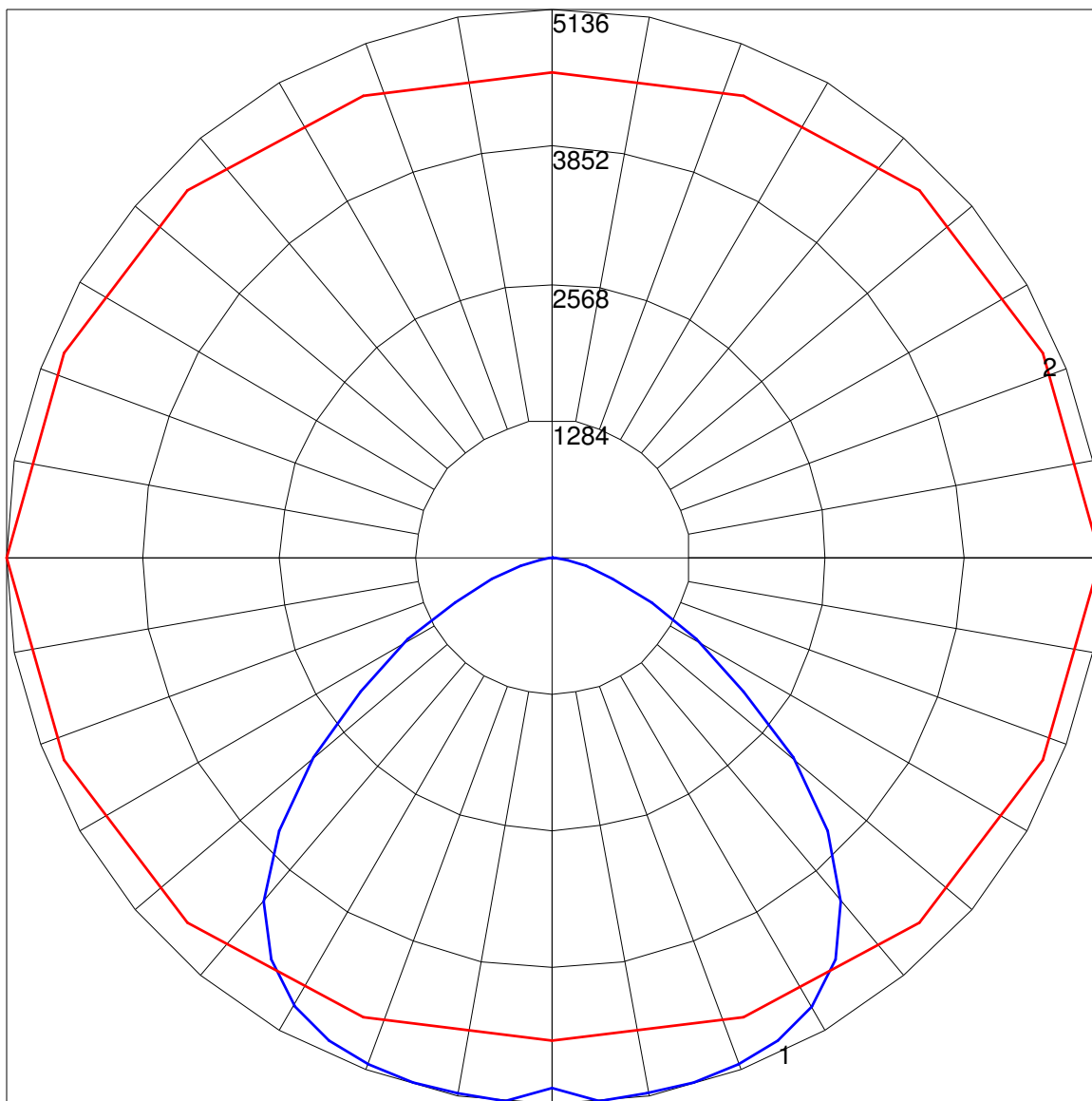
4H	2H	18.6	19.7	19.0	20.0	20.4	7.8	8.9	8.2	9.2	9.7
	3H	20.4	21.3	20.8	21.7	22.1	11.0	11.8	11.4	12.3	12.7
	4H	20.9	21.8	21.4	22.2	22.7	13.1	13.9	13.6	14.4	14.8
	6H	21.3	22.0	21.8	22.5	23.0	15.3	16.0	15.8	16.4	16.9
	8H	21.4	22.1	21.9	22.5	23.0	16.5	17.1	17.0	17.6	18.1
	12H	21.5	22.0	22.0	22.5	23.0	17.9	18.5	18.4	19.0	19.5

8H	4H	20.9	21.5	21.4	22.0	22.5	13.7	14.3	14.2	14.8	15.3
	6H	21.3	21.9	21.9	22.4	22.9	16.1	16.6	16.6	17.1	17.6
	8H	21.5	22.0	22.0	22.5	23.0	17.4	17.9	18.0	18.5	19.0
	12H	21.6	22.0	22.2	22.6	23.1	19.1	19.5	19.6	20.0	20.6

12H	4H	20.9	21.4	21.4	21.9	22.4	13.8	14.4	14.3	14.9	15.4
	6H	21.3	21.8	21.9	22.3	22.9	16.3	16.8	16.8	17.2	17.8
	8H	21.6	22.0	22.1	22.5	23.1	17.8	18.2	18.3	18.7	19.3

Maximum UGR = 23.2

POLAR GRAPH



Maximum Candela = 5136.281 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.)