



IES INDOOR REPORT

PHOTOMETRIC FILENAME : GA-4-L55-830-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-L55-830-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	5282
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	141
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	37378	3591	2280
55	27772	1729	1527
65	17245	1397	1397
75	8661	1996	2356
85	2165	4032	4613

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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	5095.718	5095.718	5095.718	5095.718	5095.718
5	5245.560	5089.108	4955.793	4782.814	4638.481
10	5230.135	4950.284	4553.644	4139.376	3900.290
15	5214.710	4713.402	3872.746	3221.596	2928.523
20	5180.555	4266.080	2947.253	2150.669	1906.074
25	5111.143	3678.833	2012.947	1296.791	1102.879
30	4972.319	2916.404	1164.578	721.664	633.522
35	4722.216	2170.501	688.611	453.932	418.675
40	4304.643	1409.173	470.459	342.653	302.989
45	3715.192	919.984	376.808	277.648	243.493
50	3008.953	650.048	290.869	220.355	192.811
55	2246.523	514.530	150.943	144.333	136.620
60	1598.678	294.174	101.363	103.567	106.872
65	1033.467	153.147	93.651	99.160	96.956
70	618.097	118.992	89.244	102.465	102.465
75	321.719	103.567	89.244	111.279	111.279
80	136.620	93.651	93.651	101.363	102.465
85	28.646	82.633	84.837	104.669	109.076
90	4.407	34.155	37.460	59.496	65.005
95	2.204	1.102	7.712	38.562	40.766
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	1558.28	N.A.	29.50
0-30	2721.45	N.A.	51.50
0-40	3652.23	N.A.	69.10
0-60	4798.01	N.A.	90.80
0-80	5175.69	N.A.	98.00
0-90	5261.28	N.A.	99.60
10-90	4801.63	N.A.	90.90
20-40	2093.95	N.A.	39.60
20-50	2787.02	N.A.	52.80
40-70	1383.47	N.A.	26.20
60-80	377.68	N.A.	7.20
70-80	139.99	N.A.	2.70
80-90	85.59	N.A.	1.60
90-110	20.74	N.A.	0.40
90-120	20.74	N.A.	0.40
90-130	20.74	N.A.	0.40
90-150	20.74	N.A.	0.40
90-180	20.74	N.A.	0.40
110-180	0.00	N.A.	0.00
0-180	5282.02	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	459.65
10-20	1098.62
20-30	1163.17
30-40	930.78
40-50	693.07
50-60	452.71
60-70	237.69
70-80	139.99
80-90	85.59
90-100	20.74
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

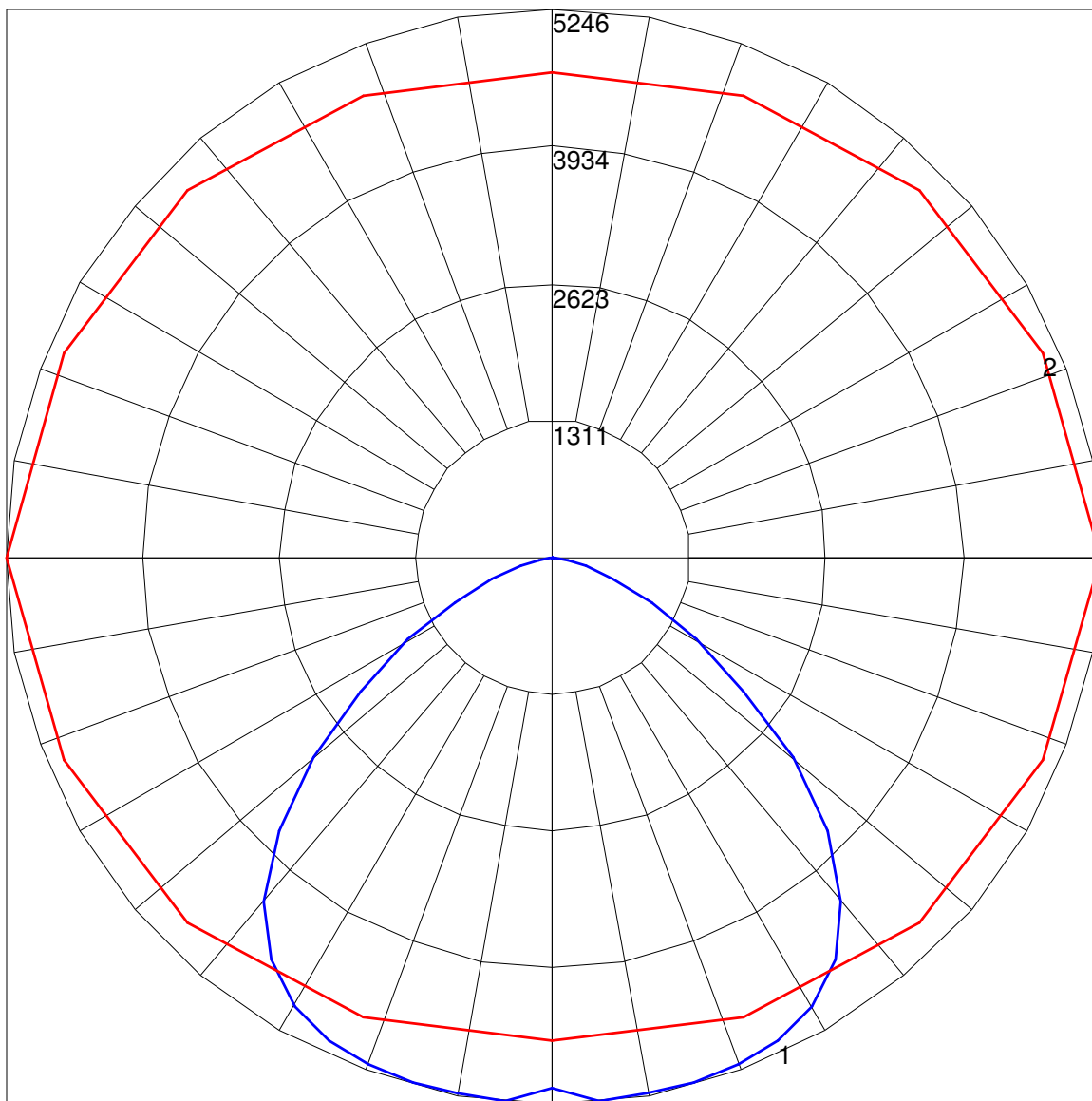
X=2H	Y=2H	18.8	20.1	19.2	20.4	20.8	7.2	8.5	7.6	8.9	9.2
	3H	20.6	21.7	21.0	22.1	22.5	10.0	11.1	10.4	11.5	11.9
	4H	21.1	22.2	21.5	22.5	23.0	11.9	13.0	12.3	13.4	13.8
	6H	21.4	22.4	21.8	22.8	23.2	13.8	14.8	14.3	15.2	15.7
	8H	21.4	22.4	21.9	22.8	23.2	14.9	15.9	15.4	16.3	16.7
	12H	21.4	22.3	21.9	22.7	23.2	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	21.4	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	22.0	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	17.3	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 = 5245.56 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.)