



IES INDOOR REPORT
PHOTOMETRIC FILENAME : GA-8-L70-835-N-DIM-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] 2023-05-11
[MANUFAC] WILLIAMS INDOOR
[OTHER] H.E. WILLIAMS, INC - CARTHAGE, MO
[LUMINAIRE] 8' LED AISLE LUMINAIRE
[MORE] WHITE FLAT REFLECTOR w/CLEAR ACRYLIC ROD OPTIC
[LUMCAT] GA-8-L70-835-N-DIM-UNV
[LAMPCAT] HLM 80 CRI LED

CHARACTERISTICS

Lumens Per Lamp	N.A. (absolute)
Total Lamp Lumens	N.A. (absolute)
Luminaire Lumens	6883
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	137
Total Luminaire Watts	50.3
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	28801	1980	1363
55	20774	1166	925
65	12367	886	886
75	5946	1259	1567
85	2147	3579	5011

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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	6919.849	6919.849	6919.849	6919.849	6919.849
5	6977.423	6928.783	6835.473	6715.361	6706.427
10	7048.895	6803.707	6336.164	5868.620	5756.449
15	7075.697	6527.747	5471.555	4647.645	4379.626
20	7000.255	5698.874	3560.680	2433.015	2040.914
25	6964.519	4883.899	2375.441	1448.294	1158.437
30	7102.499	3752.264	1385.757	797.108	676.996
35	6572.417	2468.751	819.939	521.148	476.478
40	6296.457	1479.067	530.082	374.234	352.395
45	5832.884	900.345	401.036	298.791	275.960
50	4692.315	646.223	298.791	231.290	218.386
55	3412.773	472.507	191.584	151.877	151.877
60	2352.610	298.791	125.075	116.141	125.075
65	1496.935	151.877	107.208	107.208	107.208
70	846.741	116.141	102.244	107.208	111.178
75	440.742	111.178	93.310	116.141	116.141
80	204.488	107.208	102.244	125.075	125.075
85	53.604	93.310	89.340	116.141	125.075
90	3.971	53.604	53.604	75.442	84.376
95	0.000	0.000	21.839	44.670	44.670
100	0.000	0.000	3.971	12.905	12.905
105	0.000	0.000	0.000	3.971	3.971
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	2139.68	N.A.	31.10
0-30	3614.43	N.A.	52.50
0-40	4790.13	N.A.	69.60
0-60	6279.98	N.A.	91.20
0-80	6749.18	N.A.	98.10
0-90	6851.56	N.A.	99.50
10-90	6215.57	N.A.	90.30
20-40	2650.44	N.A.	38.50
20-50	3548.7	N.A.	51.60
40-70	1793.86	N.A.	26.10
60-80	469.20	N.A.	6.80
70-80	165.20	N.A.	2.40
80-90	102.38	N.A.	1.50
90-110	31.58	N.A.	0.50
90-120	31.58	N.A.	0.50
90-130	31.58	N.A.	0.50
90-150	31.58	N.A.	0.50
90-180	31.58	N.A.	0.50
110-180	0.00	N.A.	0.00
0-180	6883.13	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	635.98
10-20	1503.7
20-30	1474.75
30-40	1175.7
40-50	898.26
50-60	591.59
60-70	304.01
70-80	165.20
80-90	102.38
90-100	29.23
100-110	2.35
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

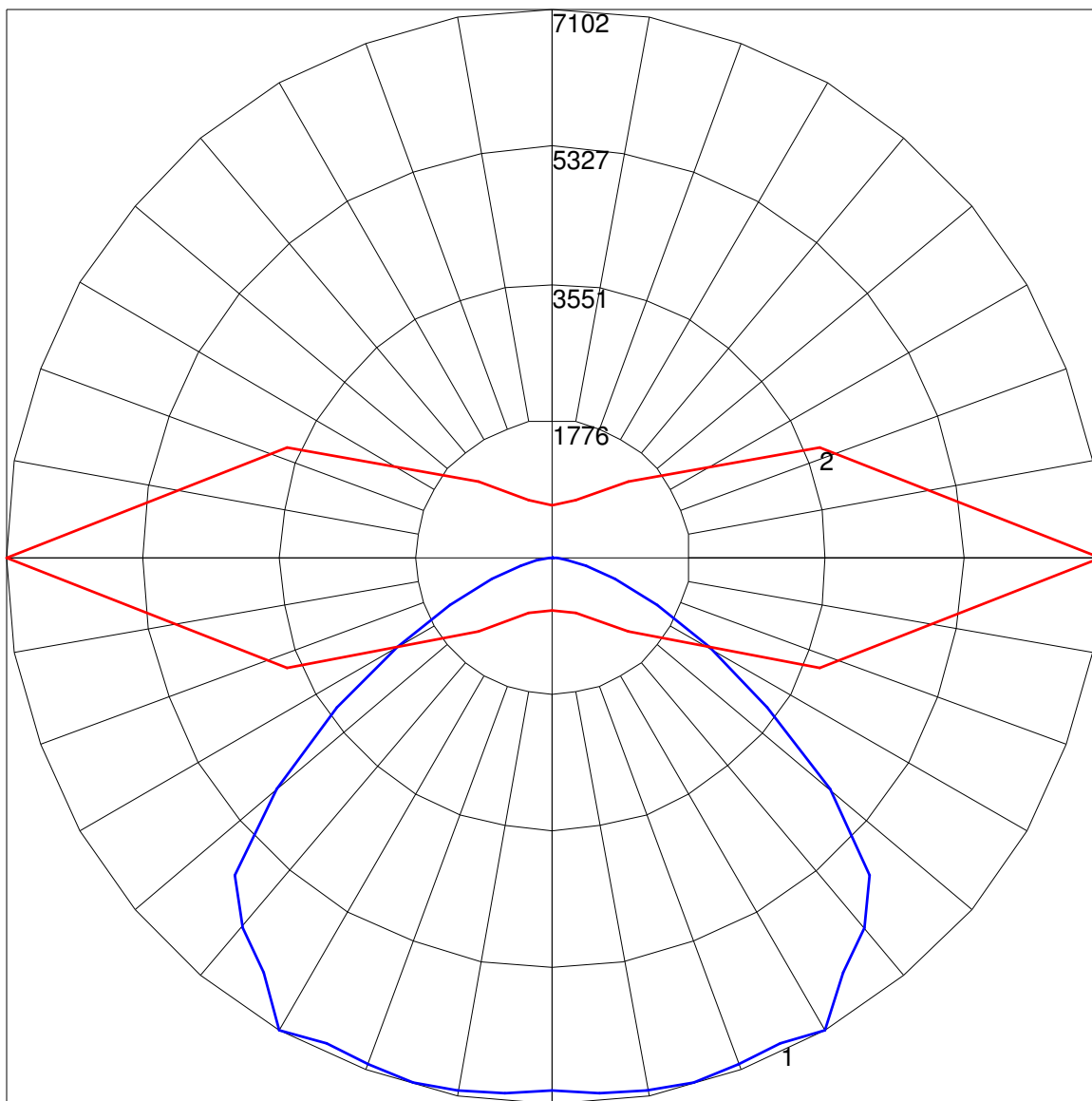
X=2H	Y=2H	17.4	18.7	17.8	19.0	19.3	6.8	6.8	6.8	6.8	6.8
	3H	19.5	20.7	19.9	21.0	21.4	7.4	8.6	7.8	8.9	9.3
	4H	20.2	21.2	20.6	21.6	22.0	9.3	10.4	9.7	10.7	11.1
	6H	20.5	21.6	21.0	21.9	22.3	11.5	12.6	12.0	12.9	13.3
	8H	20.6	21.6	21.1	22.0	22.4	12.8	13.7	13.2	14.1	14.5
	12H	20.7	21.6	21.1	22.0	22.4	14.2	15.1	14.6	15.5	15.9

UGR Viewed Endwise

4H	2H	17.2	18.3	17.6	18.6	19.0	6.8	6.8	6.8	6.9	7.3
	3H	19.3	20.2	19.8	20.6	21.0	8.5	9.4	8.9	9.8	10.2
	4H	20.0	20.8	20.4	21.2	21.7	10.6	11.4	11.0	11.8	12.3
	6H	20.5	21.2	21.0	21.6	22.1	13.1	13.8	13.6	14.3	14.8
	8H	20.7	21.3	21.1	21.8	22.2	14.5	15.1	14.9	15.6	16.0
	12H	20.8	21.4	21.3	21.8	22.3	16.0	16.5	16.5	17.0	17.5
8H	4H	19.9	20.6	20.4	21.0	21.5	11.2	11.9	11.7	12.4	12.8
	6H	20.5	21.0	21.0	21.5	22.0	14.1	14.6	14.6	15.1	15.6
	8H	20.7	21.2	21.2	21.7	22.2	15.6	16.1	16.1	16.6	17.1
	12H	20.9	21.4	21.4	21.8	22.4	17.3	17.8	17.9	18.3	18.8
12H	4H	19.9	20.5	20.4	20.9	21.4	11.5	12.1	12.0	12.6	13.0
	6H	20.5	21.0	21.0	21.4	22.0	14.3	14.8	14.9	15.3	15.8
	8H	20.8	21.2	21.3	21.7	22.3	16.0	16.4	16.5	16.9	17.5

Maximum UGR = 22.4

POLAR GRAPH



Maximum Candela = 7102.499 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.)