



IES INDOOR REPORT
PHOTOMETRIC FILENAME : GA-8-L70-850-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-L70-850-N-DIM-UNV
[LAMPCAT] HLM 80 CRI LED

CHARACTERISTICS

Lumens Per Lamp	N.A. (absolute)
Total Lamp Lumens	N.A. (absolute)
Luminaire Lumens	7309
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	145
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	30583	2103	1447
55	22059	1238	982
65	13132	940	940
75	6313	1337	1664
85	2280	3800	5321

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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	7347.880	7347.880	7347.880	7347.880	7347.880
5	7409.016	7357.367	7258.285	7130.743	7121.257
10	7484.909	7224.555	6728.091	6231.627	6112.517
15	7513.368	6931.525	5810.001	4935.128	4650.531
20	7433.260	6051.382	3780.928	2583.511	2167.156
25	7395.313	5185.995	2522.375	1537.879	1230.093
30	7541.828	3984.362	1471.473	846.413	718.872
35	6978.958	2621.457	870.657	553.384	505.951
40	6685.928	1570.555	562.870	397.382	374.193
45	6193.680	956.036	425.842	317.273	293.030
50	4982.561	686.196	317.273	245.597	231.894
55	3623.872	501.734	203.434	161.272	161.272
60	2498.132	317.273	132.812	123.325	132.812
65	1589.529	161.272	113.839	113.839	113.839
70	899.117	123.325	108.569	113.839	118.055
75	468.004	118.055	99.082	123.325	123.325
80	217.137	113.839	108.569	132.812	132.812
85	56.919	99.082	94.866	123.325	132.812
90	4.216	56.919	56.919	80.109	89.595
95	0.000	0.000	23.189	47.433	47.433
100	0.000	0.000	4.216	13.703	13.703
105	0.000	0.000	0.000	4.216	4.216
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	2272.03	N.A.	31.10
0-30	3838.00	N.A.	52.50
0-40	5086.42	N.A.	69.60
0-60	6668.43	N.A.	91.20
0-80	7166.65	N.A.	98.10
0-90	7275.37	N.A.	99.50
10-90	6600.04	N.A.	90.30
20-40	2814.39	N.A.	38.50
20-50	3768.21	N.A.	51.60
40-70	1904.82	N.A.	26.10
60-80	498.23	N.A.	6.80
70-80	175.41	N.A.	2.40
80-90	108.71	N.A.	1.50
90-110	33.53	N.A.	0.50
90-120	33.53	N.A.	0.50
90-130	33.53	N.A.	0.50
90-150	33.53	N.A.	0.50
90-180	33.53	N.A.	0.50
110-180	0.00	N.A.	0.00
0-180	7308.89	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	675.32
10-20	1596.71
20-30	1565.97
30-40	1248.42
40-50	953.82
50-60	628.18
60-70	322.81
70-80	175.41
80-90	108.71
90-100	31.04
100-110	2.49
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	17.6	18.9	18.0	19.2	19.5	7.0	7.0	7.0	7.0	7.0
	3H	19.7	20.9	20.1	21.2	21.6	7.6	8.8	8.0	9.1	9.5
	4H	20.4	21.4	20.8	21.8	22.2	9.5	10.6	9.9	10.9	11.3
	6H	20.7	21.8	21.2	22.1	22.5	11.7	12.8	12.2	13.1	13.5
	8H	20.8	21.8	21.3	22.2	22.6	13.0	13.9	13.4	14.3	14.7
	12H	20.9	21.8	21.3	22.2	22.6	14.4	15.3	14.8	15.7	16.1

UGR Viewed Endwise

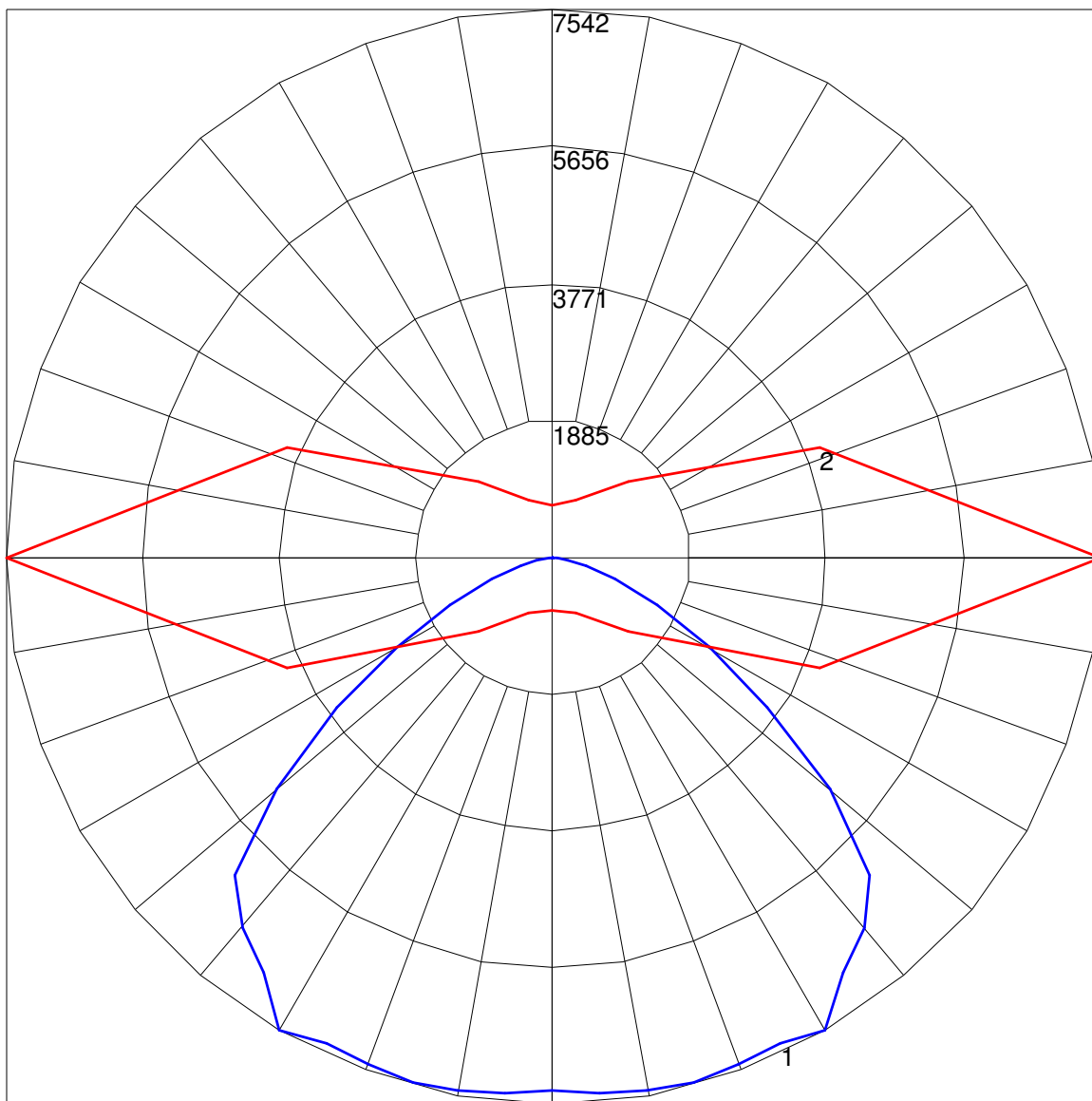
4H	2H	17.4	18.5	17.8	18.8	19.2	7.0	7.0	7.0	7.1	7.5
	3H	19.5	20.4	20.0	20.8	21.2	8.7	9.6	9.1	10.0	10.4
	4H	20.2	21.0	20.6	21.4	21.9	10.8	11.6	11.2	12.0	12.5
	6H	20.7	21.4	21.2	21.8	22.3	13.3	14.0	13.8	14.5	15.0
	8H	20.9	21.5	21.3	22.0	22.4	14.7	15.3	15.1	15.8	16.2
	12H	21.0	21.6	21.5	22.0	22.5	16.2	16.7	16.7	17.2	17.7

8H	4H	20.1	20.8	20.6	21.2	21.7	11.4	12.1	11.9	12.6	13.0
	6H	20.7	21.2	21.2	21.7	22.2	14.3	14.8	14.8	15.3	15.8
	8H	20.9	21.4	21.4	21.9	22.4	15.8	16.3	16.3	16.8	17.3
	12H	21.1	21.6	21.6	22.0	22.6	17.5	18.0	18.1	18.5	19.0

12H	4H	20.1	20.7	20.6	21.1	21.6	11.7	12.3	12.2	12.8	13.2
	6H	20.7	21.2	21.2	21.6	22.2	14.5	15.0	15.1	15.5	16.0
	8H	21.0	21.4	21.5	21.9	22.5	16.2	16.6	16.7	17.1	17.7

Maximum UGR = 22.6

POLAR GRAPH



Maximum Candela = 7541.828 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.)