



IES INDOOR REPORT

PHOTOMETRIC FILENAME : 96-4-L62-835-HIAFR-(L60)-EM10W-DIM-UNV_EMER MODE.IES

DESCRIPTION INFORMATION (From Photometric File)

IESNA:LM-63-2002
 [TEST] GEN FROM BALLABS TEST NO. 19227.0
 [TESTLAB] BUILDING ACOUSTICS & LIGHTING LABORATORIES, INC
 [ISSUE DATE] 02-21-2022
 [MANUFAC] WILLIAMS INDOOR
 [OTHER] H.E. WILLIAMS, INC - CARTHAGE, MO
 [LUMINAIRE] 4' SUSPENDED ENCLOSED & GASKETED LUMINAIRE
 [MORE] WHITE REFLECTOR w/FROSTED ACRYLIC RIBBED DIFFUSER
 [LUMCAT] 96-4-L62-835-HIAFR-(L60)-EM10W-DIM-UNV (EMER MODE)
 [LAMPCAT] HLM 80 CRI 3500K CCT

CHARACTERISTICS

Lumens Per Lamp	N.A. (absolute)
Total Lamp Lumens	N.A. (absolute)
Luminaire Lumens	1400
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	140
Total Luminaire Watts	10
Ballast Factor	1.00
CIE Type	Direct
Spacing Criterion (0-180)	1.26
Spacing Criterion (90-270)	1.16
Spacing Criterion (Diagonal)	1.30
Basic Luminous Shape	Rectangular w/Sides
Luminous Length (0-180)	4.23 ft
Luminous Width (90-270)	0.50 ft
Luminous Height	0.18 ft

LUMINANCE DATA (cd/sq.m)

Angle In Degrees	Average 0-Deg	Average 45-Deg	Average 90-Deg
45	2110	1663	1620
55	1795	1415	1398
65	1316	1150	1241
75	807	969	1070
85	297	761	913

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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	494.588	494.588	494.588	494.588	494.588
5	498.924	492.533	489.338	487.056	486.371
10	492.305	484.317	479.296	477.470	475.644
15	479.981	470.851	463.319	458.983	456.472
20	462.178	452.820	441.637	432.507	432.279
25	441.180	431.138	414.705	403.065	399.413
30	414.705	401.924	379.785	376.361	376.818
35	382.067	369.058	348.060	358.331	363.808
40	344.865	332.996	322.726	334.138	338.702
45	305.608	294.425	296.022	298.533	304.923
50	261.559	250.831	260.417	264.754	268.862
55	214.542	209.064	223.443	232.116	237.366
60	166.612	172.318	185.784	201.076	208.608
65	119.139	136.029	152.918	175.057	181.448
70	81.480	99.967	126.443	149.495	153.375
75	47.473	69.612	100.880	122.335	126.443
80	22.367	46.332	75.546	96.087	99.967
85	7.532	29.442	54.777	74.861	78.970
90	3.195	17.802	39.941	56.146	60.254
95	2.511	12.325	31.953	44.278	48.158
100	2.282	7.532	26.247	36.974	39.028
105	1.826	4.565	19.857	29.671	31.725
110	1.141	1.369	13.922	23.052	25.334
115	0.685	0.685	9.129	17.118	19.857
120	0.000	0.000	4.565	12.325	14.835
125	0.000	0.000	1.369	7.532	9.814
130	0.000	0.000	0.000	3.880	5.478
135	0.000	0.000	0.000	0.913	2.054
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

IES INDOOR REPORT**PHOTOMETRIC FILENAME : 96-4-L62-835-HIAFR-(L60)-EM10W-DIM-UNV_EMER MODE.IES****ZONAL LUMEN SUMMARY**

Zone	Lumens	%Lamp	%Fixt
0-20	177.59	N.A.	12.70
0-30	369.85	N.A.	26.40
0-40	596.33	N.A.	42.60
0-60	1025.81	N.A.	73.30
0-80	1279.77	N.A.	91.40
0-90	1336.3	N.A.	95.40
10-90	1289.76	N.A.	92.10
20-40	418.74	N.A.	29.90
20-50	648.59	N.A.	46.30
40-70	582.31	N.A.	41.60
60-80	253.97	N.A.	18.10
70-80	101.13	N.A.	7.20
80-90	56.52	N.A.	4.00
90-110	50.57	N.A.	3.60
90-120	59.92	N.A.	4.30
90-130	63.24	N.A.	4.50
90-150	63.76	N.A.	4.60
90-180	63.76	N.A.	4.60
110-180	13.19	N.A.	0.90
0-180	1400.06	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	46.53
10-20	131.06
20-30	192.26
30-40	226.48
40-50	229.85
50-60	199.63
60-70	152.84
70-80	101.13
80-90	56.52
90-100	31.71
100-110	18.86
110-120	9.36
120-130	3.31
130-140	0.52
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	118	118	118	118	115	115	115	115	109	109	109	103	103	103	98	98	98	95
1	107	102	97	93	104	99	95	91	94	90	87	89	86	84	85	83	81	78
2	97	89	82	76	94	86	80	74	82	77	72	78	73	70	74	71	67	65
3	89	78	69	63	86	76	68	62	72	66	60	69	63	59	66	61	57	55
4	81	69	60	53	78	67	59	53	64	57	51	61	55	50	59	53	49	47
5	75	62	53	46	72	60	52	46	58	50	45	55	49	44	53	47	43	41
6	69	56	47	40	67	54	46	40	52	45	39	50	43	38	48	42	38	36
7	64	50	42	36	62	49	41	35	47	40	35	46	39	34	44	38	34	32
8	60	46	38	32	58	45	37	32	44	36	31	42	35	31	40	35	30	28
9	56	42	34	29	54	42	34	28	40	33	28	39	32	28	37	32	27	25
10	52	39	31	26	51	38	31	26	37	30	25	36	30	25	35	29	25	23

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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	11.9	13.4	12.3	13.8	14.3	13.6	15.1	14.0	15.5	16.0
	3H	13.0	14.4	13.5	14.8	15.3	15.9	17.2	16.3	17.7	18.2
	4H	13.3	14.6	13.8	15.1	15.6	16.9	18.2	17.4	18.7	19.1
	6H	13.4	14.6	13.9	15.1	15.6	17.9	19.1	18.4	19.6	20.1
	8H	13.4	14.6	13.9	15.1	15.6	18.4	19.5	18.9	20.0	20.5
	12H	13.4	14.5	13.9	15.0	15.6	18.9	20.0	19.4	20.5	21.0

UGR Viewed Endwise

4H	2H	12.6	13.9	13.1	14.3	14.8	14.0	15.3	14.4	15.7	16.2
	3H	14.0	15.1	14.5	15.6	16.1	16.5	17.6	17.0	18.1	18.6
	4H	14.4	15.4	14.9	15.9	16.5	17.7	18.7	18.2	19.2	19.7
	6H	14.6	15.5	15.2	16.1	16.6	18.9	19.7	19.4	20.3	20.8
	8H	14.7	15.5	15.2	16.1	16.6	19.4	20.3	20.0	20.8	21.4
	12H	14.7	15.5	15.3	16.0	16.6	20.1	20.8	20.6	21.4	22.0

8H	4H	15.0	15.8	15.5	16.4	17.0	17.9	18.7	18.4	19.2	19.8
	6H	15.4	16.1	16.0	16.7	17.3	19.2	19.9	19.8	20.5	21.1
	8H	15.5	16.2	16.1	16.7	17.3	19.9	20.5	20.5	21.1	21.7
	12H	15.6	16.2	16.2	16.7	17.4	20.7	21.3	21.3	21.8	22.5

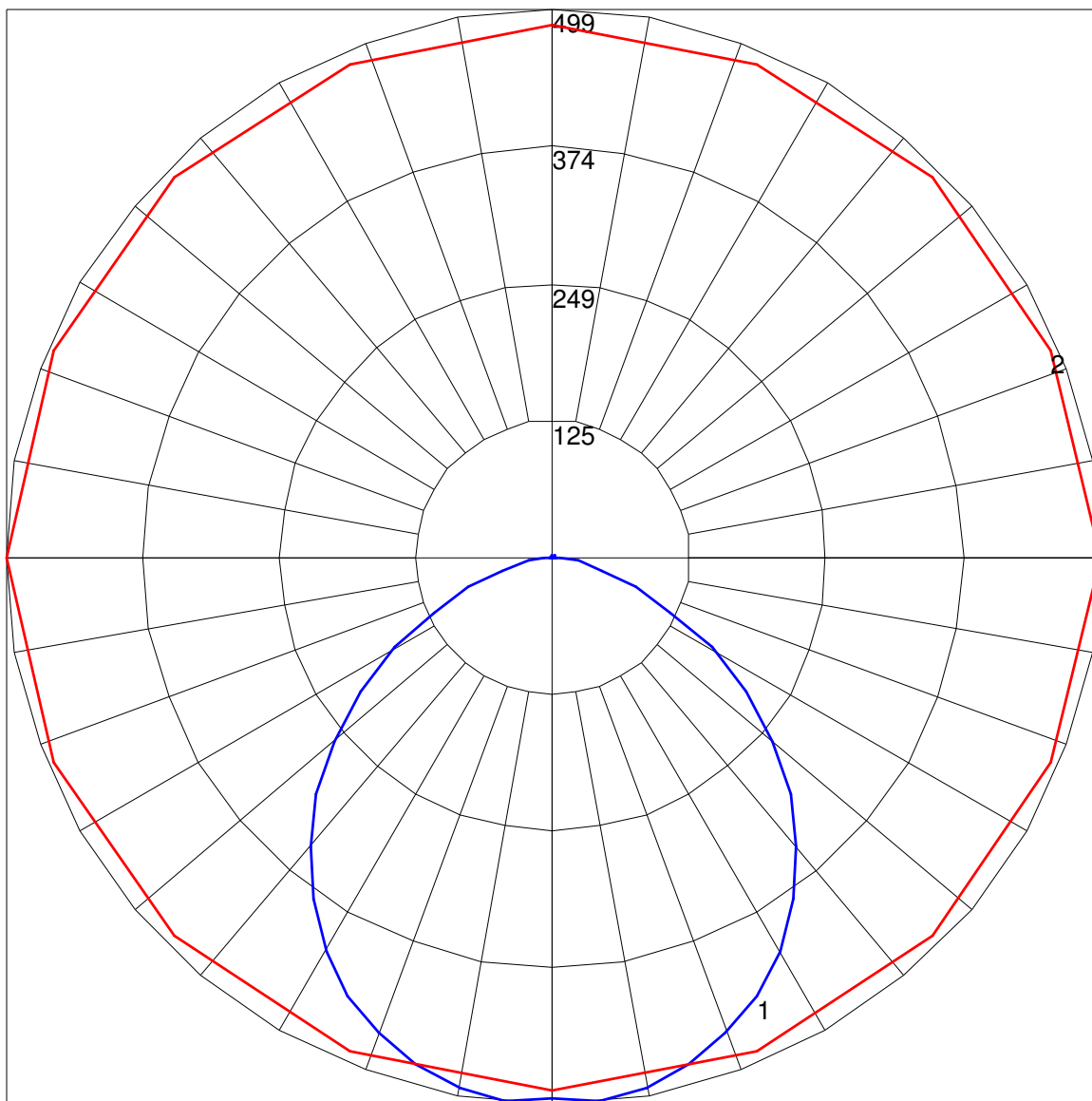
12H	4H	15.2	15.9	15.7	16.5	17.1	17.9	18.6	18.4	19.2	19.8
	6H	15.7	16.3	16.2	16.8	17.5	19.2	19.9	19.8	20.4	21.1
	8H	15.9	16.4	16.4	17.0	17.6	20.0	20.5	20.6	21.1	21.8

Maximum UGR = 22.5

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POLAR GRAPH



Maximum Candela = 498.924 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.)