



IES INDOOR REPORT

PHOTOMETRIC FILENAME : 96-4-L81-840-HIAFR-EM-BSL10LST-DIM-UNV_(EMER MODE).IES

DESCRIPTION INFORMATION (From Photometric File)

IESNA:LM-63-2002
 [TEST]GEN FROM BALLABS TEST NO. 20008.0
 [TESTLAB] BUILDING ACOUSTICS & LIGHTING LABORATORIES, INC
 [ISSUE DATE] 08-09-2023
 [MANUFAC] WILLIAMS INDOOR
 [OTHER] H.E. WILLIAMS, INC - CARTHAGE, MO
 [LUMINAIRE] 2-56 LED 22"ARRAYS 4'VAPORTITE LUMINAIRE
 [MORE] WHITE FLAT REFLECTOR w/HIAFR LENS
 [MORE] EVERLINE LED DRIVER #D15CC55UNVTW-C @ 1029mA
 [LUMCAT] 96-4-L81-840-HIAFR-EM-BSL10LST-DIM-UNV
 [LAMPCAT] HLM 80 CRI 4000K CCT

CHARACTERISTICS

Lumens Per Lamp	N.A. (absolute)
Total Lamp Lumens	N.A. (absolute)
Luminaire Lumens	1250
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	125
Total Luminaire Watts	10
Ballast Factor	1.00
CIE Type	Direct
Spacing Criterion (0-180)	1.24
Spacing Criterion (90-270)	1.16
Spacing Criterion (Diagonal)	1.32
Basic Luminous Shape	Rectangular w/Sides
Luminous Length (0-180)	4.25 ft
Luminous Width (90-270)	0.50 ft
Luminous Height	0.17 ft

LUMINANCE DATA (cd/sq.m)

Angle In Degrees	Average 0-Deg	Average 45-Deg	Average 90-Deg
45	1833	1517	1448
55	1531	1254	1232
65	1171	1032	1122
75	765	859	1013
85	296	705	845

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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	450.342	450.342	450.342	450.342	450.342
5	456.948	448.011	446.456	444.708	443.542
10	450.148	441.405	436.548	432.468	429.748
15	438.879	428.388	421.394	415.566	411.874
20	422.171	409.932	402.160	390.698	385.841
25	401.383	386.812	377.487	363.887	362.333
30	375.544	360.002	350.676	344.071	346.208
35	345.819	329.888	323.671	326.003	331.054
40	309.294	293.752	297.638	298.415	303.272
45	266.164	255.867	267.913	266.941	269.855
50	223.617	219.343	231.388	234.691	235.274
55	183.206	185.344	195.640	204.577	206.326
60	144.739	152.316	163.390	180.292	182.818
65	106.077	116.568	135.025	155.813	160.864
70	73.049	84.318	110.546	132.111	139.493
75	44.879	57.507	87.232	110.157	116.374
80	22.148	37.108	66.638	88.786	91.895
85	7.383	23.119	48.764	68.775	70.135
90	2.914	14.960	35.942	51.290	52.844
95	2.720	10.297	29.142	40.216	42.159
100	2.331	6.411	22.148	31.279	33.416
105	1.554	3.691	16.320	24.285	26.811
110	0.971	1.360	11.657	18.845	20.982
115	0.777	0.389	7.577	13.988	16.514
120	0.389	0.194	4.663	10.103	11.851
125	0.000	0.000	1.554	6.217	8.160
130	0.000	0.000	0.000	2.914	4.663
135	0.000	0.000	0.000	0.971	1.749
140	0.000	0.000	0.000	0.777	0.777
145	0.000	0.000	0.000	0.389	0.389
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-L81-840-HIAFR-EM-BSL10LST-DIM-UNV_(EMER MODE).IES****ZONAL LUMEN SUMMARY**

Zone	Lumens	%Lamp	%Fixt
0-20	161.36	N.A.	12.90
0-30	335.65	N.A.	26.90
0-40	541.15	N.A.	43.30
0-60	920.59	N.A.	73.60
0-80	1144.59	N.A.	91.60
0-90	1194.92	N.A.	95.60
10-90	1152.53	N.A.	92.20
20-40	379.79	N.A.	30.40
20-50	583.86	N.A.	46.70
40-70	514.07	N.A.	41.10
60-80	224.01	N.A.	17.90
70-80	89.37	N.A.	7.10
80-90	50.33	N.A.	4.00
90-110	43.84	N.A.	3.50
90-120	51.63	N.A.	4.10
90-130	54.46	N.A.	4.40
90-150	55.05	N.A.	4.40
90-180	55.05	N.A.	4.40
110-180	11.21	N.A.	0.90
0-180	1249.97	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	42.39
10-20	118.97
20-30	174.29
30-40	205.50
40-50	204.07
50-60	175.37
60-70	134.63
70-80	89.37
80-90	50.33
90-100	28.11
100-110	15.73
110-120	7.79
120-130	2.83
130-140	0.50
140-150	0.09
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	96
1	107	102	97	93	104	99	95	91	94	91	88	89	87	84	85	83	81	78
2	97	89	82	76	94	86	80	75	82	77	72	78	74	70	75	71	68	65
3	89	78	70	63	86	76	68	62	72	66	61	69	64	59	66	61	57	55
4	81	69	60	54	79	68	59	53	65	57	52	62	56	51	59	54	49	47
5	75	62	53	46	72	61	52	46	58	51	45	56	49	44	53	48	43	41
6	69	56	47	41	67	55	46	40	52	45	39	50	44	39	48	43	38	36
7	64	51	42	36	62	50	41	36	48	40	35	46	39	34	44	38	34	32
8	60	46	38	32	58	45	37	32	44	37	31	42	36	31	41	35	30	29
9	56	43	34	29	54	42	34	29	40	33	28	39	33	28	38	32	28	26
10	52	39	31	26	51	39	31	26	37	31	26	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	11.5	13.0	11.9	13.4	13.8	13.2	14.7	13.6	15.1	15.6
	3H	12.6	14.0	13.0	14.4	14.9	15.5	16.9	15.9	17.3	17.8
	4H	12.9	14.2	13.3	14.6	15.1	16.6	17.9	17.0	18.3	18.8
	6H	13.0	14.3	13.5	14.7	15.2	17.6	18.9	18.1	19.3	19.8
	8H	13.1	14.2	13.5	14.7	15.2	18.1	19.3	18.6	19.8	20.3
	12H	13.0	14.2	13.5	14.6	15.2	18.6	19.8	19.1	20.2	20.8

UGR Viewed Endwise

4H	2H	12.2	13.5	12.6	13.9	14.4	13.6	14.9	14.0	15.3	15.8
	3H	13.6	14.7	14.0	15.2	15.6	16.1	17.2	16.6	17.7	18.2
	4H	14.0	15.0	14.5	15.5	16.0	17.4	18.4	17.9	18.9	19.4
	6H	14.2	15.1	14.7	15.6	16.1	18.6	19.5	19.1	20.0	20.6
	8H	14.2	15.1	14.8	15.6	16.2	19.2	20.1	19.7	20.6	21.1
	12H	14.3	15.0	14.8	15.6	16.1	19.8	20.6	20.4	21.1	21.7

8H	4H	14.6	15.4	15.1	15.9	16.5	17.5	18.4	18.1	18.9	19.5
	6H	14.9	15.7	15.5	16.2	16.8	18.9	19.6	19.5	20.2	20.8
	8H	15.0	15.7	15.6	16.3	16.8	19.7	20.3	20.2	20.9	21.5
	12H	15.1	15.7	15.7	16.2	16.9	20.5	21.0	21.0	21.6	22.2

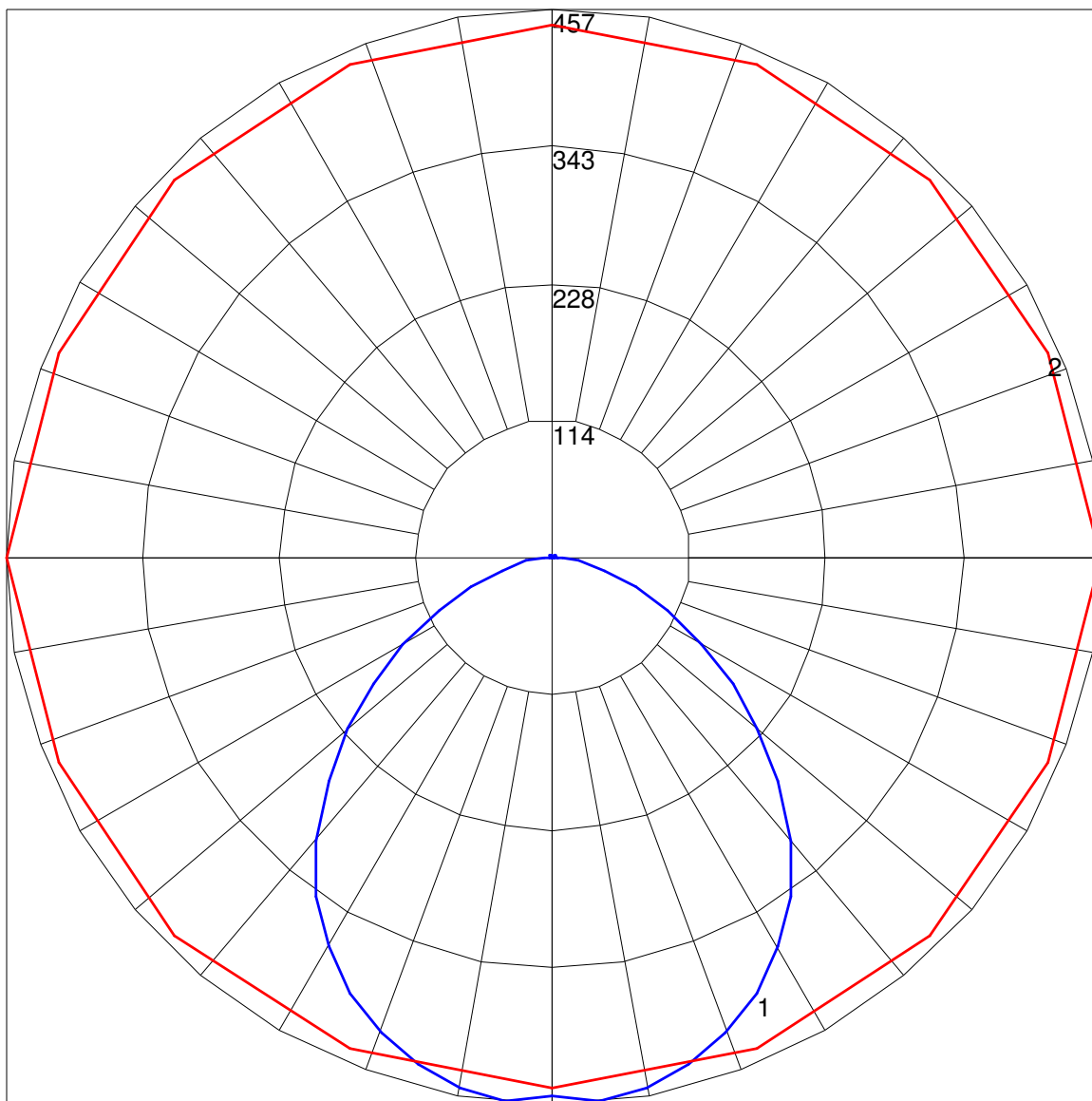
12H	4H	14.7	15.5	15.3	16.0	16.6	17.5	18.3	18.1	18.8	19.4
	6H	15.2	15.9	15.8	16.4	17.0	19.0	19.6	19.5	20.1	20.8
	8H	15.4	16.0	15.9	16.5	17.2	19.7	20.3	20.3	20.9	21.5

Maximum UGR = 22.2

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POLAR GRAPH



Maximum Candela = 456.948 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.)