



IES INDOOR REPORT

PHOTOMETRIC FILENAME : 39-4-L52-840-A-EM10W-DIM-UNV_EMER MODE.IES

DESCRIPTION INFORMATION (From Photometric File)

IESNA:LM-63-2002

[TEST] GEN from BALLABS TEST NO. 19011.0

[TESTLAB] BUILDING ACOUSTICS & LIGHTING LABORATORIES, INC

[ISSUEDATE] 04-07-2022

[MANUFAC] WILLIAMS INDOOR

[OTHER] H.E. WILLIAMS, INC - CARTHAGE, MO 64836

[LUMINAIRE] 4' SURFACE MOUNT LED LUMINAIRE

[MORE] WITH FROSTED ACRYLIC RIBBED LENS

[LUMCAT] 39-4-L52-840-A-EM10W-DIM-UNV

[LAMPCAT]HLM 80 CRI, 4000K CCT

[_SEARCH_SOURCETYPE] LED

[_SEARCH_APPLICATION] INDOOR, ARCHITECTURAL, COMMERCIAL, DIRECT, LINEAR

[_SEARCH_MOUNTING]SURFACE, SUSPENDED

CHARACTERISTICS

Lumens Per Lamp	N.A. (absolute)
Total Lamp Lumens	N.A. (absolute)
Luminaire Lumens	3720
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	372
Total Luminaire Watts	10
Ballast Factor	1.00
CIE Type	Direct
Spacing Criterion (0-180)	1.18
Spacing Criterion (90-270)	1.18
Spacing Criterion (Diagonal)	1.30
Basic Luminous Shape	Rectangular w/Sides
Luminous Length (0-180)	4.01 ft
Luminous Width (90-270)	0.79 ft
Luminous Height	0.18 ft

LUMINANCE DATA (cd/sq.m)

Angle In Degrees	Average 0-Deg	Average 45-Deg	Average 90-Deg
45	3688	3336	3296
55	3077	2742	2756
65	2545	2244	2394
75	1856	1780	2066
85	1094	1483	1924

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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	1421.825	1421.825	1421.825	1421.825	1421.825
5	1429.720	1429.003	1428.285	1428.285	1429.003
10	1398.140	1397.422	1397.422	1398.140	1399.576
15	1348.617	1350.052	1352.205	1353.641	1355.076
20	1307.706	1308.424	1312.730	1313.448	1313.448
25	1197.893	1200.764	1204.353	1206.506	1206.506
30	1106.741	1110.330	1115.354	1118.225	1118.943
35	1029.944	1035.686	1043.581	1047.170	1049.323
40	903.623	910.801	921.567	928.026	930.897
45	803.141	813.189	827.544	837.592	841.181
50	671.079	681.127	700.506	715.578	721.320
55	553.371	565.572	589.257	607.201	615.096
60	441.405	454.324	479.444	506.000	516.766
65	347.382	361.019	393.317	429.921	441.405
70	252.641	269.149	311.495	350.971	366.761
75	165.078	185.175	231.827	274.173	289.246
80	96.894	122.732	173.691	216.755	231.827
85	42.346	70.338	120.579	161.490	175.844
90	0.000	30.862	71.773	104.789	117.708
95	0.000	12.919	45.935	75.362	86.845
100	0.000	0.000	27.992	50.959	58.854
105	0.000	0.000	17.943	33.733	40.911
110	0.000	0.000	0.000	22.967	27.992
115	0.000	0.000	0.000	17.226	20.814
120	0.000	0.000	0.000	14.355	15.790
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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Zone	Lumens	%Lamp	%Fixt
0-20	517.81	N.A.	13.90
0-30	1074.86	N.A.	28.90
0-40	1719.47	N.A.	46.20
0-60	2876.17	N.A.	77.30
0-80	3515.12	N.A.	94.50
0-90	3642.32	N.A.	97.90
10-90	3507.12	N.A.	94.30
20-40	1201.66	N.A.	32.30
20-50	1832.52	N.A.	49.30
40-70	1547.78	N.A.	41.60
60-80	638.95	N.A.	17.20
70-80	247.88	N.A.	6.70
80-90	127.19	N.A.	3.40
90-110	69.02	N.A.	1.90
90-120	76.14	N.A.	2.00
90-130	77.43	N.A.	2.10
90-150	77.43	N.A.	2.10
90-180	77.43	N.A.	2.10
110-180	8.41	N.A.	0.20
0-180	3719.74	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	135.20
10-20	382.61
20-30	557.05
30-40	644.61
40-50	630.86
50-60	525.85
60-70	391.07
70-80	247.88
80-90	127.19
90-100	49.82
100-110	19.20
110-120	7.12
120-130	1.29
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	110	110	110	105	105	105	100	100	100	98
1	108	103	99	95	105	101	97	93	96	93	90	92	89	86	88	86	83	81
2	98	90	83	77	95	88	82	76	84	79	74	80	76	72	77	74	70	68
3	90	79	71	65	87	78	70	64	74	68	63	71	66	61	69	64	60	58
4	82	71	62	55	80	69	61	55	66	59	54	64	58	53	61	56	52	50
5	76	63	54	48	74	62	54	48	60	52	47	58	51	46	55	50	45	43
6	70	57	48	42	68	56	48	42	54	47	41	52	46	41	50	45	40	38
7	65	52	43	37	64	51	43	37	49	42	37	48	41	36	46	40	36	34
8	61	48	39	33	59	47	39	33	45	38	33	44	37	33	43	37	32	30
9	57	44	36	30	55	43	35	30	42	35	30	41	34	30	39	34	29	27
10	53	40	33	27	52	40	32	27	39	32	27	38	31	27	37	31	27	25

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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

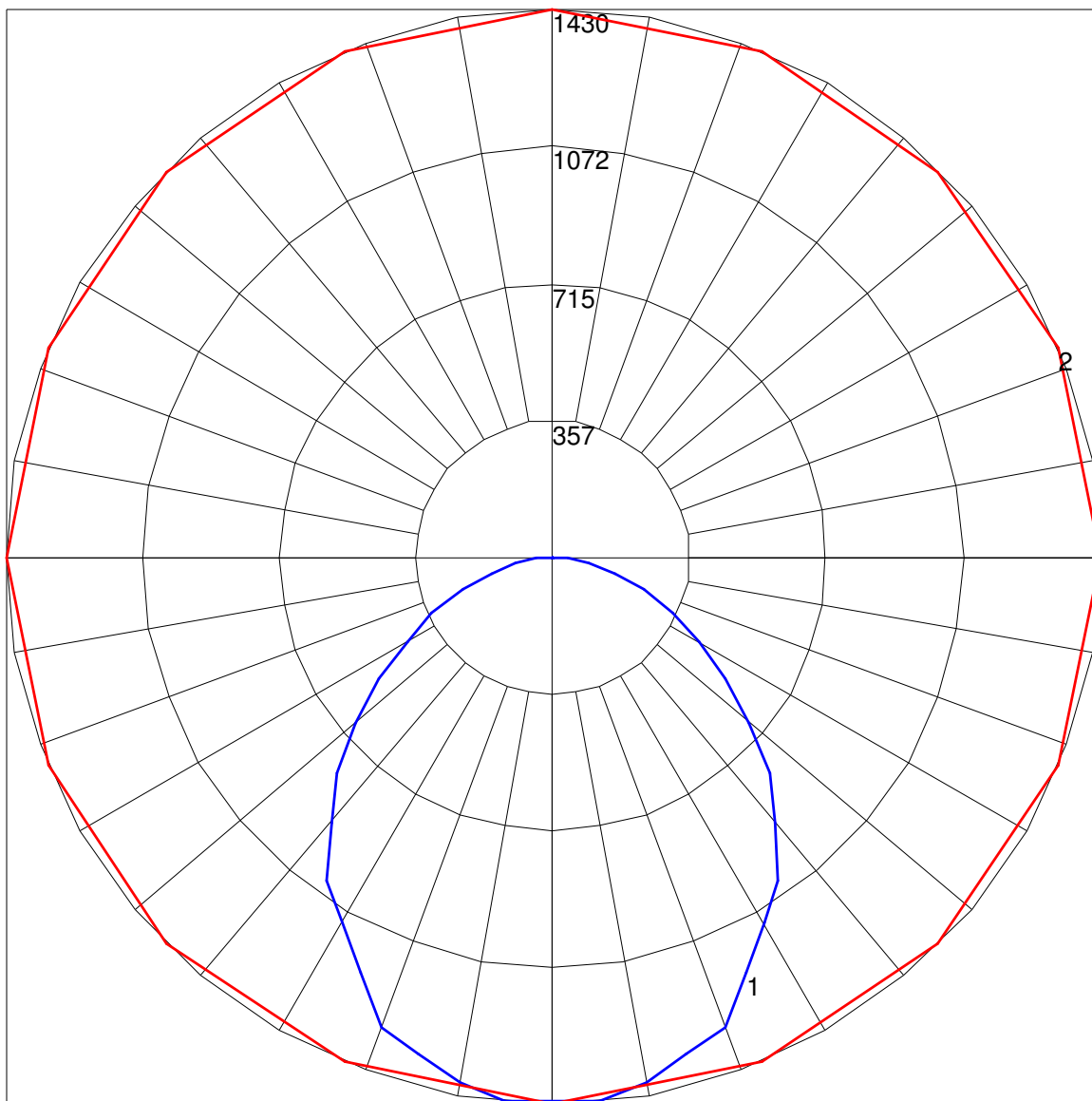
X=2H	Y=2H	14.5	16.0	14.9	16.4	16.8	15.6	17.2	16.0	17.6	17.9
	3H	15.8	17.3	16.2	17.6	18.0	17.7	19.1	18.1	19.5	19.9
	4H	16.2	17.6	16.7	18.0	18.4	18.6	19.9	19.0	20.3	20.7
	6H	16.5	17.8	16.9	18.2	18.6	19.5	20.7	19.9	21.1	21.6
	8H	16.6	17.8	17.0	18.2	18.6	19.9	21.1	20.4	21.5	22.0
	12H	16.6	17.7	17.1	18.2	18.6	20.3	21.5	20.8	21.9	22.4

UGR Viewed Endwise

4H	2H	15.1	16.5	15.6	16.9	17.3	16.1	17.4	16.5	17.8	18.2
	3H	16.7	17.8	17.2	18.3	18.7	18.3	19.5	18.8	19.9	20.4
	4H	17.2	18.3	17.7	18.7	19.2	19.4	20.4	19.9	20.9	21.3
	6H	17.6	18.5	18.1	19.0	19.5	20.5	21.4	20.9	21.8	22.3
	8H	17.7	18.6	18.2	19.0	19.5	21.0	21.8	21.5	22.3	22.8
	12H	17.8	18.5	18.3	19.0	19.6	21.5	22.3	22.1	22.8	23.3
8H	4H	17.7	18.5	18.2	19.0	19.5	19.6	20.4	20.1	20.9	21.4
	6H	18.2	18.9	18.7	19.4	19.9	20.8	21.5	21.3	22.0	22.6
	8H	18.3	19.0	18.9	19.5	20.1	21.4	22.1	22.0	22.6	23.2
	12H	18.5	19.0	19.0	19.6	20.2	22.2	22.7	22.7	23.3	23.9
12H	4H	17.8	18.5	18.3	19.1	19.6	19.6	20.3	20.1	20.9	21.4
	6H	18.3	19.0	18.9	19.5	20.1	20.8	21.5	21.4	22.0	22.6
	8H	18.6	19.2	19.1	19.7	20.3	21.5	22.1	22.1	22.6	23.2

Maximum UGR = 23.9

POLAR GRAPH



Maximum Candela = 1429.72 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.)