

IES INDOOR REPORT

PHOTOMETRIC FILENAME : LT-12-L40-835-AF-DIM-UNV_.IES

DESCRIPTION INFORMATION (From Photometric File)

IESNA:LM-63-2002
[TEST] GEN FROM BALLABS TEST NO. 20224.0
[TESTLAB] BUILDING ACOUSTICS & LIGHTING LABORATORIES, INC
[ISSUE DATE] 9 JAN, 2024
[MANUFAC] H.E. WILLIAMS, INC - CARTHAGE, MO
[LUMINAIRE] 1x2' RECESSED LED LUMINAIRE
[MORE] WHITE REFLECTOR w/FROSTED ACRYLIC CENTER LENS
[MORE] 0-10V DIMMING DRIVER
[LUMCAT] LT-12-L40-835-AF-DIM-UNV_
[LAMPCAT] 22 INCH LED ARRAY
[_SEARCH_SOURCE TYPE] LED
[_SEARCH_APPLICATION] INDOOR
[_SEARCH_MOUNTING] RECESSED

CHARACTERISTICS

Lumens Per Lamp	N.A. (absolute)
Total Lamp Lumens	N.A. (absolute)
Luminaire Lumens	3840
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	117
Total Luminaire Watts	32.91
Ballast Factor	1.00
CIE Type	Direct
Spacing Criterion (0-180)	1.26
Spacing Criterion (90-270)	1.28
Spacing Criterion (Diagonal)	1.38
Basic Luminous Shape	Rectangular
Luminous Length (0-180)	1.92 ft
Luminous Width (90-270)	0.92 ft
Luminous Height	0.00 ft

LUMINANCE DATA (cd/sq.m)

Angle In Degrees	Average 0-Deg	Average 45-Deg	Average 90-Deg
45	7449	7682	8114
55	6847	7503	8118
65	5965	7334	7768
75	4507	6542	6869
85	1943	3184	2698

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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	1335.406	1335.406	1335.406	1335.406	1335.406
5	1356.163	1330.793	1323.874	1320.030	1316.954
10	1333.099	1310.035	1306.191	1303.885	1300.041
15	1301.578	1282.358	1278.514	1282.358	1276.977
20	1250.069	1233.924	1233.924	1240.843	1240.843
25	1190.871	1178.570	1184.721	1196.253	1197.022
30	1123.986	1111.685	1124.754	1143.206	1143.206
35	1048.643	1039.418	1053.256	1080.933	1083.239
40	960.231	958.694	974.070	1007.897	1015.585
45	861.056	862.594	887.964	928.710	937.936
50	754.193	762.650	798.014	838.761	853.368
55	641.948	663.474	703.452	741.892	761.112
60	530.472	563.530	608.890	640.410	658.093
65	412.077	449.748	506.639	528.166	536.622
70	304.445	349.804	397.470	409.002	420.534
75	190.662	249.091	276.768	274.462	290.606
80	99.175	142.997	157.604	146.841	157.604
85	27.677	49.203	45.359	38.440	38.440
90	0.000	0.000	0.000	0.000	0.000

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ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixt
0-20	487.77	N.A.	12.70
0-30	1035.48	N.A.	27.00
0-40	1698.41	N.A.	44.20
0-60	3016.9	N.A.	78.60
0-80	3777.81	N.A.	98.40
0-90	3839.58	N.A.	100.00
10-90	3713.4	N.A.	96.70
20-40	1210.64	N.A.	31.50
20-50	1900.75	N.A.	49.50
40-70	1803.99	N.A.	47.00
60-80	760.91	N.A.	19.80
70-80	275.42	N.A.	7.20
80-90	61.76	N.A.	1.60
90-110	0.00	N.A.	0.00
90-120	0.00	N.A.	0.00
90-130	0.00	N.A.	0.00
90-150	0.00	N.A.	0.00
90-180	0.00	N.A.	0.00
110-180	0.00	N.A.	0.00
0-180	3839.58	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	126.17
10-20	361.59
20-30	547.72
30-40	662.92
40-50	690.11
50-60	628.39
60-70	485.49
70-80	275.42
80-90	61.76
90-100	0.00
100-110	0.00
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	227	227	227	227	222	222	222	222	212	212	212	203	203	203	195	195	195	191
1	208	198	190	183	202	194	187	180	186	180	174	178	173	169	172	168	164	160
2	189	173	159	148	183	169	157	147	162	152	143	156	147	140	150	143	137	133
3	172	151	136	123	167	148	134	122	143	130	120	137	127	118	132	123	116	111
4	157	134	117	104	153	131	115	103	126	113	102	122	110	100	118	108	99	95
5	144	119	102	89	140	117	101	89	113	99	88	109	97	87	106	95	86	82
6	133	107	90	78	129	106	89	78	102	88	77	99	86	76	96	84	75	71
7	123	97	80	69	120	96	80	68	93	78	68	90	77	67	87	76	67	63
8	115	89	72	61	112	87	72	61	85	71	61	83	70	60	80	69	60	56
9	107	81	66	55	105	80	65	55	78	64	55	76	63	54	74	62	54	50
10	101	75	60	50	98	74	60	50	72	59	49	70	58	49	69	57	49	46

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UGR TABLE - CORRECTED

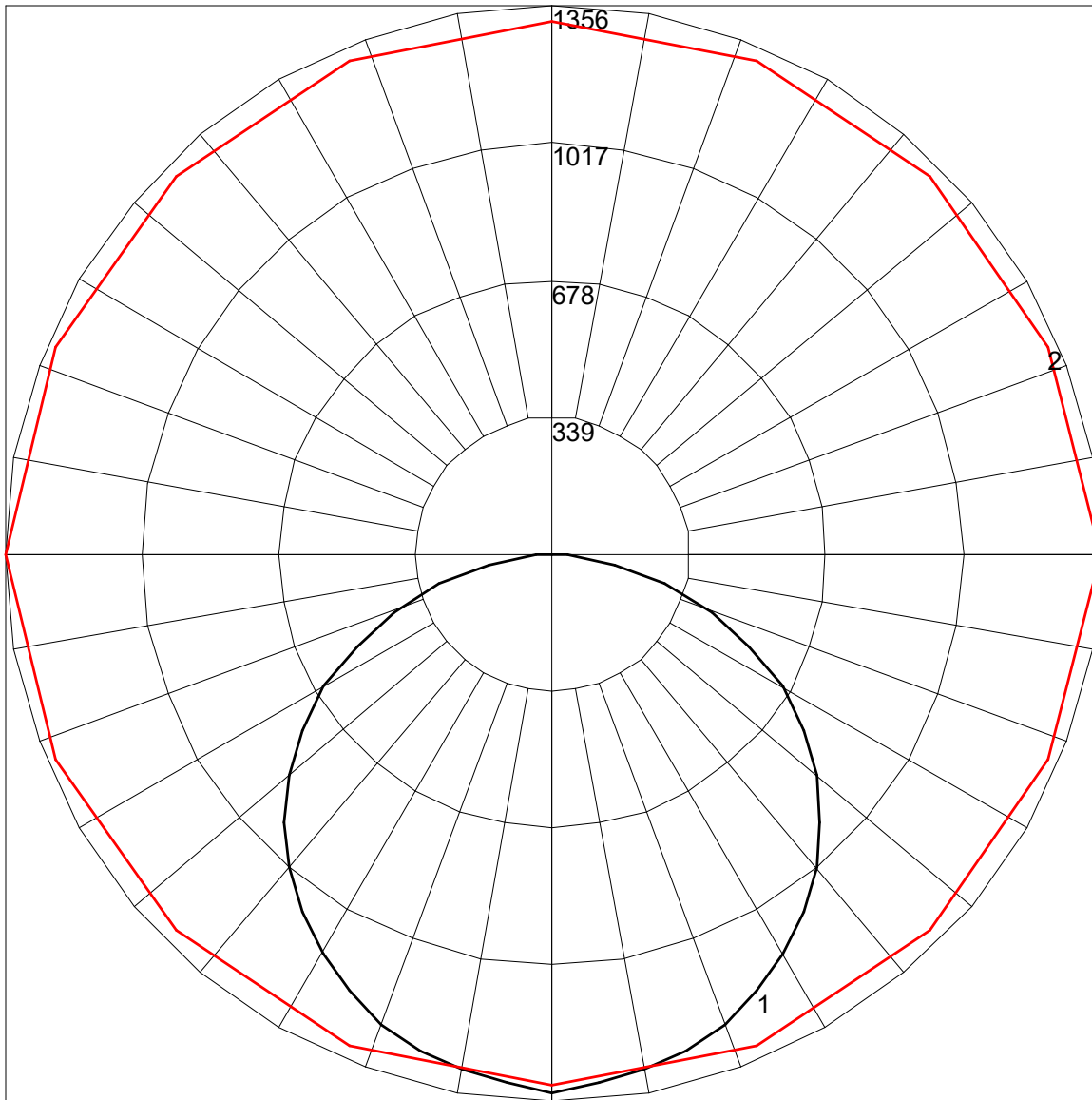
Reflectances

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					UGR Viewed Endwise				
X=2H	Y=2H	16.5	18.1	16.8	18.4	18.7	17.4	19.0	17.8	19.4	19.7
	3H	18.1	19.6	18.5	19.9	20.3	19.3	20.8	19.7	21.1	21.5
	4H	18.7	20.1	19.1	20.4	20.8	20.0	21.4	20.4	21.8	22.1
	6H	19.0	20.3	19.4	20.7	21.1	20.5	21.8	20.9	22.1	22.5
	8H	19.1	20.3	19.5	20.7	21.1	20.6	21.8	21.0	22.2	22.6
	12H	19.1	20.3	19.5	20.7	21.1	20.6	21.8	21.0	22.2	22.6
4H	2H	17.3	18.7	17.7	19.0	19.4	18.0	19.4	18.4	19.8	20.1
	3H	19.2	20.4	19.6	20.8	21.2	20.1	21.3	20.6	21.7	22.1
	4H	19.9	21.0	20.3	21.4	21.8	21.0	22.0	21.4	22.4	22.9
	6H	20.4	21.3	20.8	21.7	22.2	21.5	22.5	22.0	22.9	23.3
	8H	20.5	21.3	20.9	21.8	22.2	21.7	22.5	22.1	23.0	23.4
	12H	20.5	21.3	21.0	21.8	22.2	21.7	22.5	22.2	23.0	23.4
8H	4H	20.3	21.2	20.8	21.6	22.1	21.2	22.1	21.7	22.6	23.0
	6H	20.9	21.6	21.4	22.1	22.6	21.9	22.6	22.4	23.1	23.6
	8H	21.1	21.7	21.6	22.3	22.7	22.1	22.7	22.6	23.2	23.7
	12H	21.2	21.8	21.7	22.3	22.8	22.2	22.8	22.7	23.2	23.8
12H	4H	20.3	21.1	20.8	21.6	22.1	21.3	22.0	21.7	22.5	23.0
	6H	21.0	21.6	21.5	22.1	22.6	22.0	22.6	22.5	23.1	23.6
	8H	21.2	21.8	21.7	22.3	22.8	22.2	22.7	22.7	23.2	23.8

Maximum UGR = 23.8

POLAR GRAPH



Maximum Candela = 1356.163 Located At Horizontal Angle = 0, Vertical Angle = 5
1 - Vertical Plane Through Horizontal Angles (90 - 270)
2 - Horizontal Cone Through Vertical Angle (5) (Through Max. Cd.)