



IES INDOOR REPORT

PHOTOMETRIC FILENAME : LT-14-L63-835-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
[ISSUEDATE] 2023-07-21
[MANUFAC] H.E. WILLIAMS, INC - CARTHAGE, MO
[LUMINAIRE] 1x4'RECESSED LED LUMINAIRE
[MORE] WHITE REFLECTOR w/FROSTED ACRYLIC CENTER LENS
[MORE] 0-10V DIMMING DRIVER
[LUMCAT] LT-14-L63-835-AF-DIM-UNV_
[LAMPCAT] 22 INCH LED ARRAYS
[_SEARCH_SOURCETYPE] LED
[_SEARCH_APPLICATION] INDOOR
[_SEARCH_MOUNTING] RECESSED

CHARACTERISTICS

Lumens Per Lamp	N.A. (absolute)
Total Lamp Lumens	N.A. (absolute)
Luminaire Lumens	6261
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	129
Total Luminaire Watts	48.5
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)	3.92 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	5945	6131	6476
55	5464	5988	6479
65	4760	5853	6199
75	3597	5221	5482
85	1550	2541	2153

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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	2177.684	2177.684	2177.684	2177.684	2177.684
5	2211.534	2170.162	2158.878	2152.610	2147.595
10	2173.923	2136.312	2130.043	2126.282	2120.013
15	2122.521	2091.178	2084.910	2091.178	2082.402
20	2038.523	2012.195	2012.195	2023.478	2023.478
25	1941.987	1921.928	1931.958	1950.763	1952.017
30	1832.915	1812.856	1834.169	1864.258	1864.258
35	1710.052	1695.008	1717.574	1762.708	1766.469
40	1565.876	1563.369	1588.443	1643.606	1656.143
45	1404.148	1406.656	1448.028	1514.474	1529.519
50	1229.884	1243.674	1301.345	1367.791	1391.611
55	1046.843	1081.947	1147.139	1209.824	1241.167
60	865.056	918.965	992.934	1044.335	1073.171
65	671.985	733.417	826.191	861.295	875.085
70	496.467	570.435	648.165	666.971	685.776
75	310.919	406.200	451.333	447.572	473.900
80	161.728	233.189	257.009	239.457	257.009
85	45.133	80.237	73.969	62.685	62.685
90	0.000	0.000	0.000	0.000	0.000

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ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixt
0-20	795.41	N.A.	12.70
0-30	1688.59	N.A.	27.00
0-40	2769.64	N.A.	44.20
0-60	4919.75	N.A.	78.60
0-80	6160.58	N.A.	98.40
0-90	6261.3	N.A.	100.00
10-90	6055.55	N.A.	96.70
20-40	1974.23	N.A.	31.50
20-50	3099.61	N.A.	49.50
40-70	2941.81	N.A.	47.00
60-80	1240.83	N.A.	19.80
70-80	449.13	N.A.	7.20
80-90	100.72	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	6261.3	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	205.75
10-20	589.66
20-30	893.18
30-40	1081.05
40-50	1125.38
50-60	1024.73
60-70	791.70
70-80	449.13
80-90	100.72
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	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100
1	109	104	100	96	106	102	98	94	97	94	91	93	91	88	90	88	86	84
2	99	90	84	78	96	89	82	77	85	80	75	82	77	73	79	75	72	69
3	90	79	71	64	87	78	70	64	75	68	63	72	66	62	69	65	61	58
4	82	70	61	54	80	69	60	54	66	59	53	64	58	53	62	56	52	50
5	76	63	54	47	73	61	53	47	59	52	46	57	51	46	55	50	45	43
6	70	56	47	41	68	55	47	41	54	46	40	52	45	40	50	44	39	37
7	65	51	42	36	63	50	42	36	49	41	36	47	40	35	46	40	35	33
8	60	47	38	32	59	46	38	32	44	37	32	43	36	32	42	36	31	29
9	56	43	34	29	55	42	34	29	41	34	29	40	33	28	39	33	28	26
10	53	39	31	26	51	39	31	26	38	31	26	37	30	26	36	30	26	24

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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	18.0	19.6	18.3	19.9	20.3	UGR Viewed Endwise			
	3H	19.6	21.1	20.0	21.5	21.8	18.9	20.6	19.3	20.9
	4H	20.2	21.6	20.6	21.9	22.3	20.8	22.3	21.2	22.7
	6H	20.5	21.8	20.9	22.2	22.6	21.5	22.9	21.9	23.3
	8H	20.6	21.8	21.0	22.2	22.6	21.5	22.9	21.9	23.3
	12H	20.6	21.8	21.1	22.2	22.6	22.0	23.3	22.4	23.7

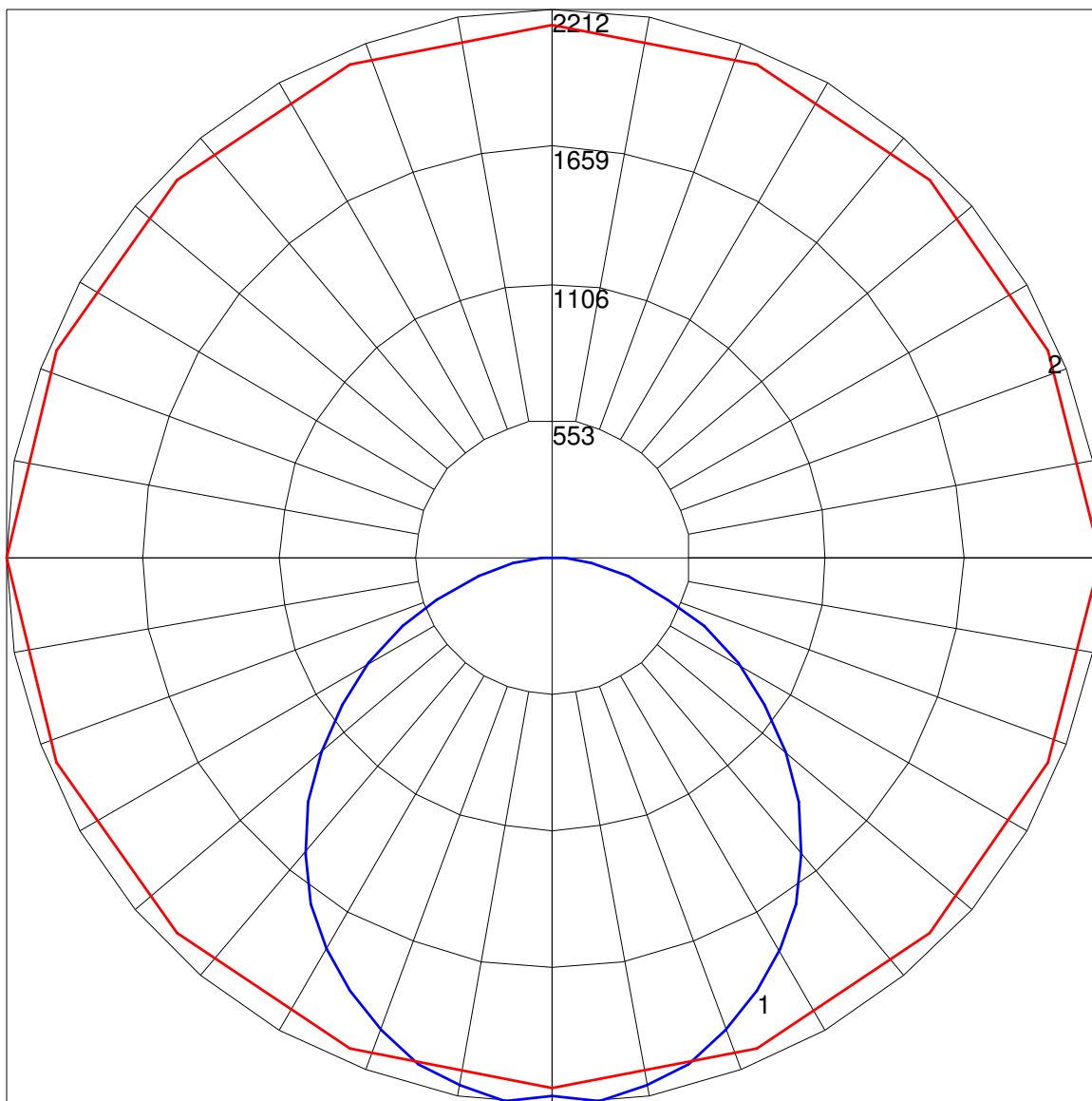
4H	2H	18.8	20.2	19.2	20.6	20.9	22.0	23.3	22.4	23.7
	3H	20.7	21.9	21.1	22.3	22.7	22.1	23.3	22.5	23.7
	4H	21.4	22.5	21.9	22.9	23.3	22.1	23.3	22.5	23.7
	6H	21.9	22.8	22.3	23.2	23.7	22.1	23.3	22.5	23.7
	8H	22.0	22.9	22.4	23.3	23.8	22.1	23.3	22.5	23.7
	12H	22.0	22.8	22.5	23.3	23.8	22.1	23.3	22.5	23.7

8H	4H	21.8	22.7	22.3	23.1	23.6	22.1	23.3	22.5	23.7
	6H	22.4	23.2	22.9	23.6	24.1	22.1	23.3	22.5	23.7
	8H	22.6	23.3	23.1	23.8	24.3	22.1	23.3	22.5	23.7
	12H	22.7	23.3	23.2	23.8	24.3	22.1	23.3	22.5	23.7

12H	4H	21.9	22.7	22.3	23.1	23.6	22.1	23.3	22.5	23.7
	6H	22.5	23.2	23.0	23.6	24.2	22.1	23.3	22.5	23.7
	8H	22.7	23.3	23.2	23.8	24.4	22.1	23.3	22.5	23.7

Maximum UGR = 25.3

POLAR GRAPH



Maximum Candela = 2211.534 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.)