



IES INDOOR REPORT

PHOTOMETRIC FILENAME : LT-14-L90-835-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-L90-835-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	9060
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	136
Total Luminaire Watts	66.8
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	8603	8872	9371
55	7907	8665	9375
65	6889	8469	8971
75	5204	7555	7933
85	2243	3677	3116

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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	3151.226	3151.226	3151.226	3151.226	3151.226
5	3200.208	3140.340	3124.013	3114.942	3107.685
10	3145.783	3091.358	3082.287	3076.844	3067.773
15	3071.402	3026.047	3016.976	3026.047	3013.348
20	2949.852	2911.754	2911.754	2928.082	2928.082
25	2810.160	2781.133	2795.647	2822.859	2824.674
30	2652.327	2623.300	2654.141	2697.681	2697.681
35	2474.537	2452.767	2485.423	2550.733	2556.175
40	2265.907	2262.279	2298.562	2378.386	2396.528
45	2031.878	2035.507	2095.374	2191.526	2213.296
50	1779.708	1799.664	1883.116	1979.267	2013.737
55	1514.838	1565.635	1659.972	1750.681	1796.035
60	1251.782	1329.792	1436.828	1511.209	1552.936
65	972.399	1061.294	1195.543	1246.340	1266.296
70	718.414	825.451	937.930	965.142	992.355
75	449.916	587.793	653.104	647.661	685.759
80	234.029	337.437	371.906	346.508	371.906
85	65.310	116.107	107.036	90.709	90.709
90	0.000	0.000	0.000	0.000	0.000

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ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixt
0-20	1151.00	N.A.	12.70
0-30	2443.48	N.A.	27.00
0-40	4007.82	N.A.	44.20
0-60	7119.14	N.A.	78.60
0-80	8914.69	N.A.	98.40
0-90	9060.44	N.A.	100.00
10-90	8762.71	N.A.	96.70
20-40	2856.81	N.A.	31.50
20-50	4485.3	N.A.	49.50
40-70	4256.96	N.A.	47.00
60-80	1795.55	N.A.	19.80
70-80	649.92	N.A.	7.20
80-90	145.75	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	9060.44	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	297.73
10-20	853.27
20-30	1292.47
30-40	1564.34
40-50	1628.49
50-60	1482.84
60-70	1145.63
70-80	649.92
80-90	145.75
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

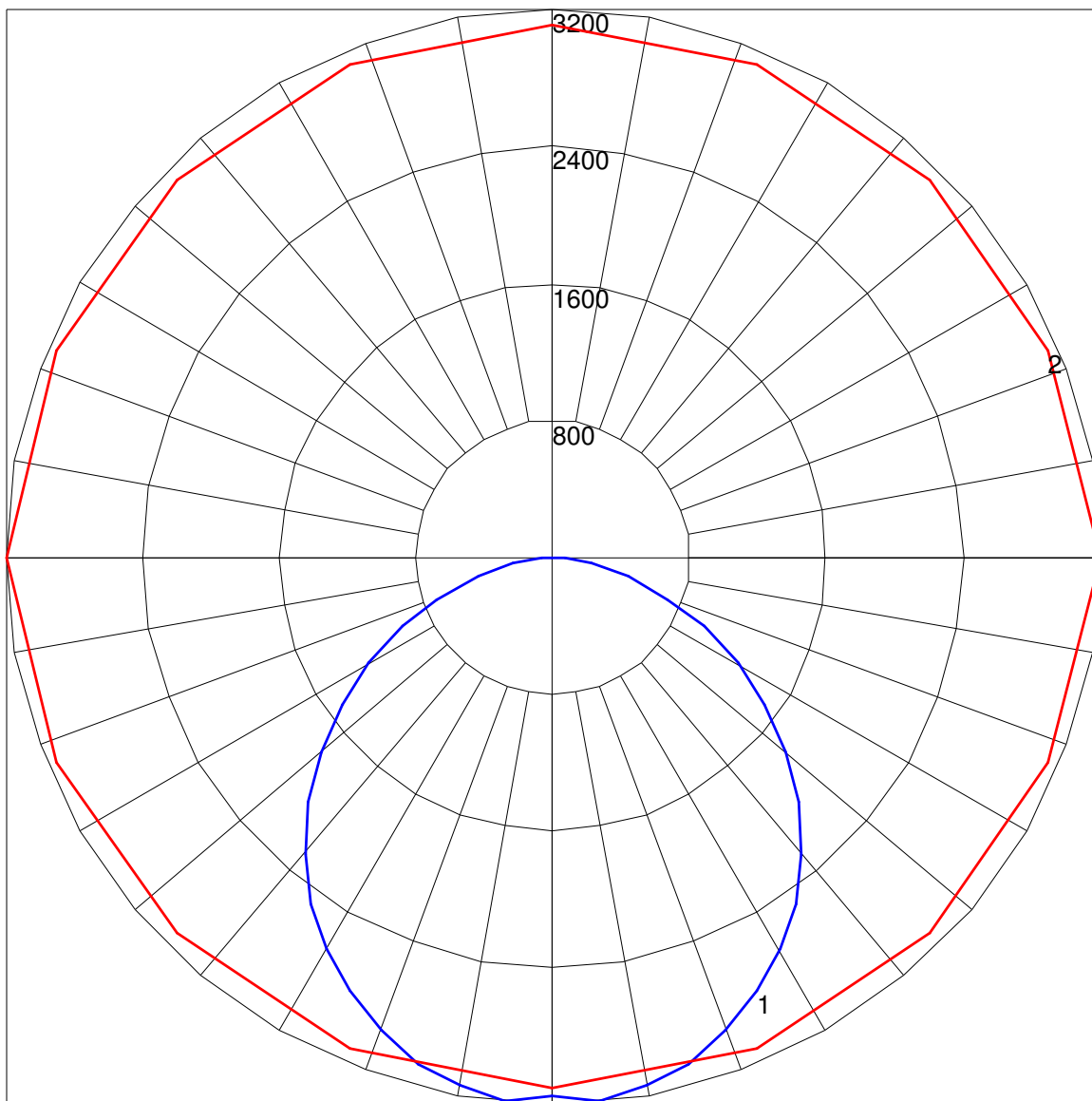
Reflectances

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					UGR Viewed Endwise				
X=2H	Y=2H	19.3	20.9	19.6	21.2	21.6	20.2	21.9	20.6	22.2	22.5
	3H	20.9	22.4	21.3	22.8	23.1	22.1	23.6	22.5	24.0	24.3
	4H	21.5	22.9	21.9	23.2	23.6	22.8	24.2	23.2	24.6	25.0
	6H	21.8	23.1	22.2	23.5	23.9	23.3	24.6	23.7	25.0	25.3
	8H	21.9	23.1	22.3	23.5	23.9	23.4	24.6	23.8	25.0	25.4
	12H	21.9	23.1	22.4	23.5	23.9	23.4	24.6	23.9	25.0	25.4
4H	2H	20.1	21.5	20.5	21.9	22.2	20.8	22.2	21.2	22.6	22.9
	3H	22.0	23.2	22.4	23.6	24.0	23.0	24.1	23.4	24.5	24.9
	4H	22.7	23.8	23.2	24.2	24.6	23.8	24.8	24.2	25.3	25.7
	6H	23.2	24.1	23.6	24.5	25.0	24.3	25.3	24.8	25.7	26.2
	8H	23.3	24.2	23.7	24.6	25.1	24.5	25.3	24.9	25.8	26.3
	12H	23.3	24.1	23.8	24.6	25.1	24.5	25.3	25.0	25.8	26.3
8H	4H	23.1	24.0	23.6	24.4	24.9	24.1	24.9	24.5	25.4	25.8
	6H	23.7	24.5	24.2	24.9	25.4	24.7	25.4	25.2	25.9	26.4
	8H	23.9	24.6	24.4	25.1	25.6	24.9	25.6	25.4	26.1	26.5
	12H	24.0	24.6	24.5	25.1	25.6	25.0	25.6	25.5	26.1	26.6
12H	4H	23.2	24.0	23.6	24.4	24.9	24.1	24.9	24.6	25.3	25.8
	6H	23.8	24.5	24.3	24.9	25.5	24.8	25.4	25.3	25.9	26.4
	8H	24.0	24.6	24.5	25.1	25.7	25.0	25.6	25.5	26.0	26.6

Maximum UGR = 26.6

POLAR GRAPH



Maximum Candela = 3200.208 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.)