



IES INDOOR REPORT

PHOTOMETRIC FILENAME : LT-14-L28-827-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-L28-827-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	2730
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	128
Total Luminaire Watts	21.4
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	2592	2673	2823
55	2382	2610	2824
65	2075	2552	2703
75	1568	2276	2390
85	676	1108	939

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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	949.395	949.395	949.395	949.395	949.395
5	964.153	946.116	941.197	938.464	936.278
10	947.756	931.359	928.626	926.986	924.253
15	925.346	911.682	908.949	911.682	907.856
20	888.726	877.248	877.248	882.167	882.167
25	846.640	837.895	842.267	850.466	851.012
30	799.088	790.343	799.635	812.752	812.752
35	745.524	738.965	748.804	768.480	770.120
40	682.668	681.575	692.507	716.556	722.021
45	612.161	613.254	631.291	660.259	666.818
50	536.187	542.199	567.342	596.310	606.695
55	456.388	471.692	500.113	527.442	541.106
60	377.135	400.637	432.885	455.294	467.866
65	292.963	319.745	360.191	375.495	381.507
70	216.442	248.690	282.578	290.776	298.975
75	135.550	177.089	196.766	195.126	206.604
80	70.508	101.662	112.047	104.395	112.047
85	19.677	34.981	32.248	27.329	27.329
90	0.000	0.000	0.000	0.000	0.000

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ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixt
0-20	346.77	N.A.	12.70
0-30	736.17	N.A.	27.00
0-40	1207.47	N.A.	44.20
0-60	2144.84	N.A.	78.60
0-80	2685.8	N.A.	98.40
0-90	2729.71	N.A.	100.00
10-90	2640.01	N.A.	96.70
20-40	860.69	N.A.	31.50
20-50	1351.32	N.A.	49.50
40-70	1282.53	N.A.	47.00
60-80	540.96	N.A.	19.80
70-80	195.81	N.A.	7.20
80-90	43.91	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	2729.71	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	89.70
10-20	257.07
20-30	389.39
30-40	471.30
40-50	490.63
50-60	446.75
60-70	345.15
70-80	195.81
80-90	43.91
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	53	47	73	61	53	47	59	52	46	57	51	45	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

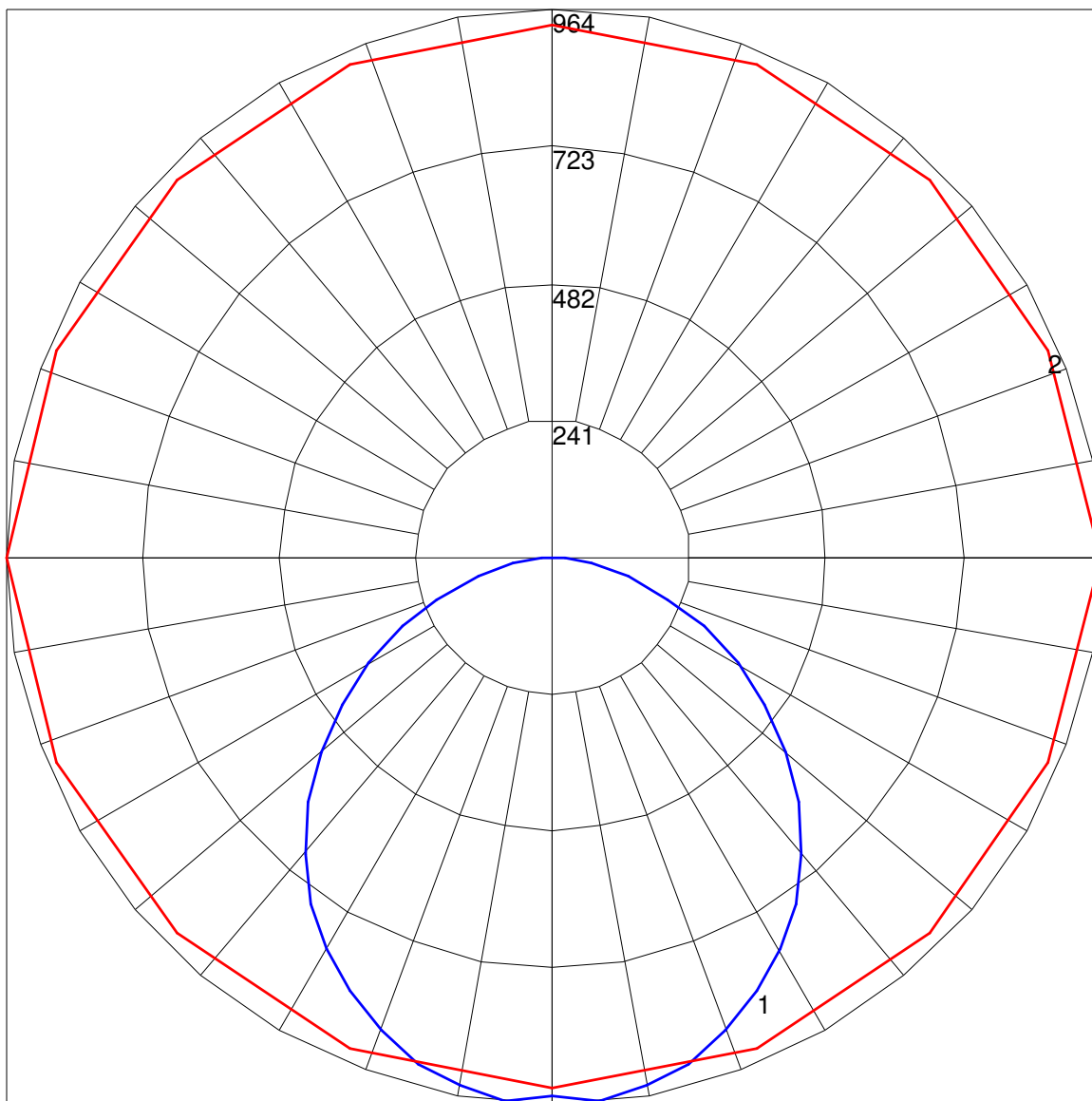
Reflectances

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	15.1	16.7	15.4	17.0	17.4	16.0	17.7	16.4	18.0	18.3
	3H	16.7	18.2	17.1	18.6	18.9	17.9	19.4	18.3	19.8	20.1
	4H	17.3	18.7	17.7	19.0	19.4	18.6	20.0	19.0	20.4	20.8
	6H	17.6	18.9	18.0	19.3	19.7	19.1	20.4	19.5	20.8	21.1
	8H	17.7	18.9	18.1	19.3	19.7	19.2	20.4	19.6	20.8	21.2
	12H	17.7	18.9	18.2	19.3	19.7	19.2	20.4	19.7	20.8	21.2
4H	2H	15.9	17.3	16.3	17.7	18.0	16.6	18.0	17.0	18.4	18.7
	3H	17.8	19.0	18.2	19.4	19.8	18.8	19.9	19.2	20.3	20.7
	4H	18.5	19.6	19.0	20.0	20.4	19.6	20.6	20.0	21.1	21.5
	6H	19.0	19.9	19.4	20.3	20.8	20.1	21.1	20.6	21.5	22.0
	8H	19.1	20.0	19.5	20.4	20.9	20.3	21.1	20.7	21.6	22.1
	12H	19.1	19.9	19.6	20.4	20.9	20.3	21.1	20.8	21.6	22.1
8H	4H	18.9	19.8	19.4	20.2	20.7	19.9	20.7	20.3	21.2	21.6
	6H	19.5	20.3	20.0	20.7	21.2	20.5	21.2	21.0	21.7	22.2
	8H	19.7	20.4	20.2	20.9	21.4	20.7	21.4	21.2	21.9	22.3
	12H	19.8	20.4	20.3	20.9	21.4	20.8	21.4	21.3	21.9	22.4
12H	4H	19.0	19.8	19.4	20.2	20.7	19.9	20.7	20.4	21.1	21.6
	6H	19.6	20.3	20.1	20.7	21.3	20.6	21.2	21.1	21.7	22.2
	8H	19.8	20.4	20.3	20.9	21.5	20.8	21.4	21.3	21.8	22.4

Maximum UGR = 22.4

POLAR GRAPH



Maximum Candela = 964.153 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.)