



IES INDOOR REPORT

PHOTOMETRIC FILENAME : LT-14-L28-830-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-L28-830-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	2786
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	130
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	2645	2728	2882
55	2431	2664	2883
65	2118	2604	2758
75	1600	2323	2439
85	690	1131	958

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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	968.971	968.971	968.971	968.971	968.971
5	984.032	965.623	960.603	957.814	955.582
10	967.297	950.562	947.773	946.099	943.310
15	944.426	930.479	927.690	930.479	926.575
20	907.050	895.335	895.335	900.356	900.356
25	864.096	855.171	859.634	868.001	868.559
30	815.564	806.639	816.122	829.510	829.510
35	760.896	754.202	764.243	784.325	785.999
40	696.744	695.628	706.785	731.330	736.909
45	624.782	625.898	644.307	673.872	680.567
50	547.242	553.379	579.039	608.605	619.204
55	465.798	481.417	510.425	538.317	552.263
60	384.911	408.898	441.810	464.682	477.512
65	299.003	326.337	367.617	383.237	389.373
70	220.905	253.818	288.404	296.772	305.139
75	138.345	180.741	200.823	199.149	210.864
80	71.962	103.759	114.357	106.548	114.357
85	20.082	35.702	32.913	27.892	27.892
90	0.000	0.000	0.000	0.000	0.000

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ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixt
0-20	353.92	N.A.	12.70
0-30	751.35	N.A.	27.00
0-40	1232.36	N.A.	44.20
0-60	2189.06	N.A.	78.60
0-80	2741.18	N.A.	98.40
0-90	2786.00	N.A.	100.00
10-90	2694.45	N.A.	96.70
20-40	878.44	N.A.	31.50
20-50	1379.18	N.A.	49.50
40-70	1308.97	N.A.	47.00
60-80	552.11	N.A.	19.80
70-80	199.84	N.A.	7.20
80-90	44.82	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	2786.00	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	91.55
10-20	262.37
20-30	397.42
30-40	481.02
40-50	500.74
50-60	455.96
60-70	352.27
70-80	199.84
80-90	44.82
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

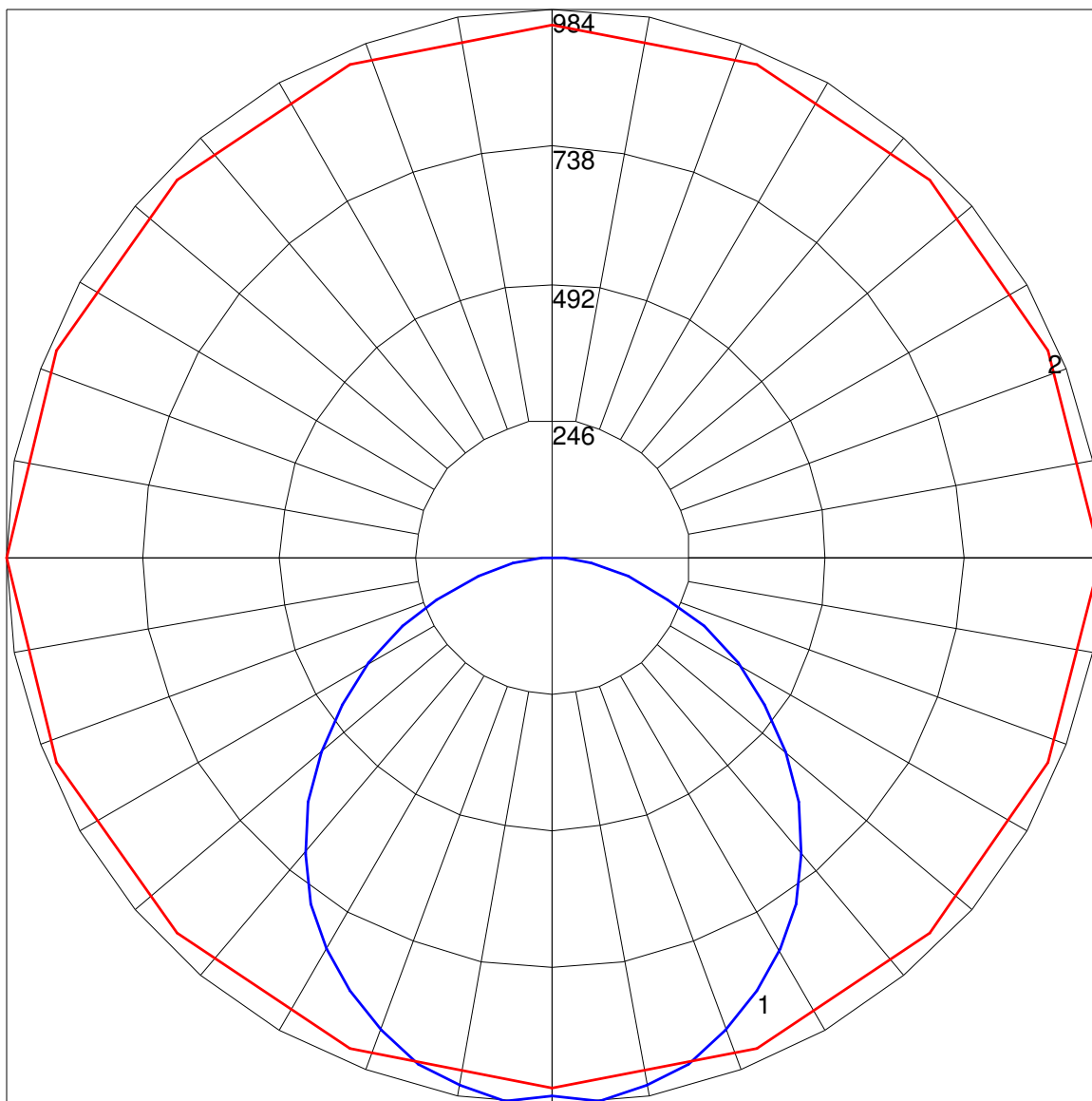
Reflectances

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	15.2	16.8	15.5	17.1	17.5	16.1	17.8	16.5	18.1	18.4
	3H	16.8	18.3	17.2	18.7	19.0	18.0	19.5	18.4	19.9	20.2
	4H	17.4	18.8	17.8	19.1	19.5	18.7	20.1	19.1	20.5	20.9
	6H	17.7	19.0	18.1	19.4	19.8	19.2	20.5	19.6	20.9	21.2
	8H	17.8	19.0	18.2	19.4	19.8	19.3	20.5	19.7	20.9	21.3
	12H	17.8	19.0	18.3	19.4	19.8	19.3	20.5	19.8	20.9	21.3
4H	2H	16.0	17.4	16.4	17.8	18.1	16.7	18.1	17.1	18.5	18.8
	3H	17.9	19.1	18.3	19.5	19.9	18.9	20.0	19.3	20.4	20.8
	4H	18.6	19.7	19.1	20.1	20.5	19.7	20.7	20.1	21.2	21.6
	6H	19.1	20.0	19.5	20.4	20.9	20.2	21.2	20.7	21.6	22.1
	8H	19.2	20.1	19.6	20.5	21.0	20.4	21.2	20.8	21.7	22.2
	12H	19.2	20.0	19.7	20.5	21.0	20.4	21.2	20.9	21.7	22.2
8H	4H	19.0	19.9	19.5	20.3	20.8	20.0	20.8	20.4	21.3	21.7
	6H	19.6	20.4	20.1	20.8	21.3	20.6	21.3	21.1	21.8	22.3
	8H	19.8	20.5	20.3	21.0	21.5	20.8	21.5	21.3	22.0	22.4
	12H	19.9	20.5	20.4	21.0	21.5	20.9	21.5	21.4	22.0	22.5
12H	4H	19.1	19.9	19.5	20.3	20.8	20.0	20.8	20.5	21.2	21.7
	6H	19.7	20.4	20.2	20.8	21.4	20.7	21.3	21.2	21.8	22.3
	8H	19.9	20.5	20.4	21.0	21.6	20.9	21.5	21.4	21.9	22.5

Maximum UGR = 22.5

POLAR GRAPH



Maximum Candela = 984.032 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.)