



IES INDOOR REPORT

PHOTOMETRIC FILENAME : LT-14-L28-927-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-L28-927-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	2251
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	105
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	2138	2204	2329
55	1965	2153	2329
65	1712	2104	2229
75	1293	1877	1971
85	557	914	774

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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	783.006	783.006	783.006	783.006	783.006
5	795.178	780.302	776.245	773.991	772.188
10	781.654	768.131	765.877	764.524	762.270
15	763.172	751.903	749.649	751.903	748.747
20	732.970	723.503	723.503	727.560	727.560
25	698.260	691.047	694.653	701.415	701.866
30	659.042	651.829	659.492	670.311	670.311
35	614.865	609.456	617.570	633.798	635.150
40	563.025	562.124	571.139	590.974	595.482
45	504.875	505.776	520.652	544.543	549.953
50	442.216	447.175	467.911	491.802	500.367
55	376.402	389.024	412.465	435.004	446.273
60	311.039	330.422	357.018	375.500	385.868
65	241.619	263.707	297.065	309.686	314.645
70	178.509	205.105	233.054	239.815	246.577
75	111.794	146.053	162.281	160.929	170.395
80	58.151	83.845	92.410	86.099	92.410
85	16.228	28.850	26.596	22.539	22.539
90	0.000	0.000	0.000	0.000	0.000

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ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixt
0-20	286.00	N.A.	12.70
0-30	607.15	N.A.	27.00
0-40	995.85	N.A.	44.20
0-60	1768.94	N.A.	78.60
0-80	2215.09	N.A.	98.40
0-90	2251.31	N.A.	100.00
10-90	2177.33	N.A.	96.70
20-40	709.85	N.A.	31.50
20-50	1114.49	N.A.	49.50
40-70	1057.76	N.A.	47.00
60-80	446.15	N.A.	19.80
70-80	161.49	N.A.	7.20
80-90	36.22	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	2251.31	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	73.98
10-20	212.02
20-30	321.15
30-40	388.70
40-50	404.64
50-60	368.45
60-70	284.66
70-80	161.49
80-90	36.22
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	40	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

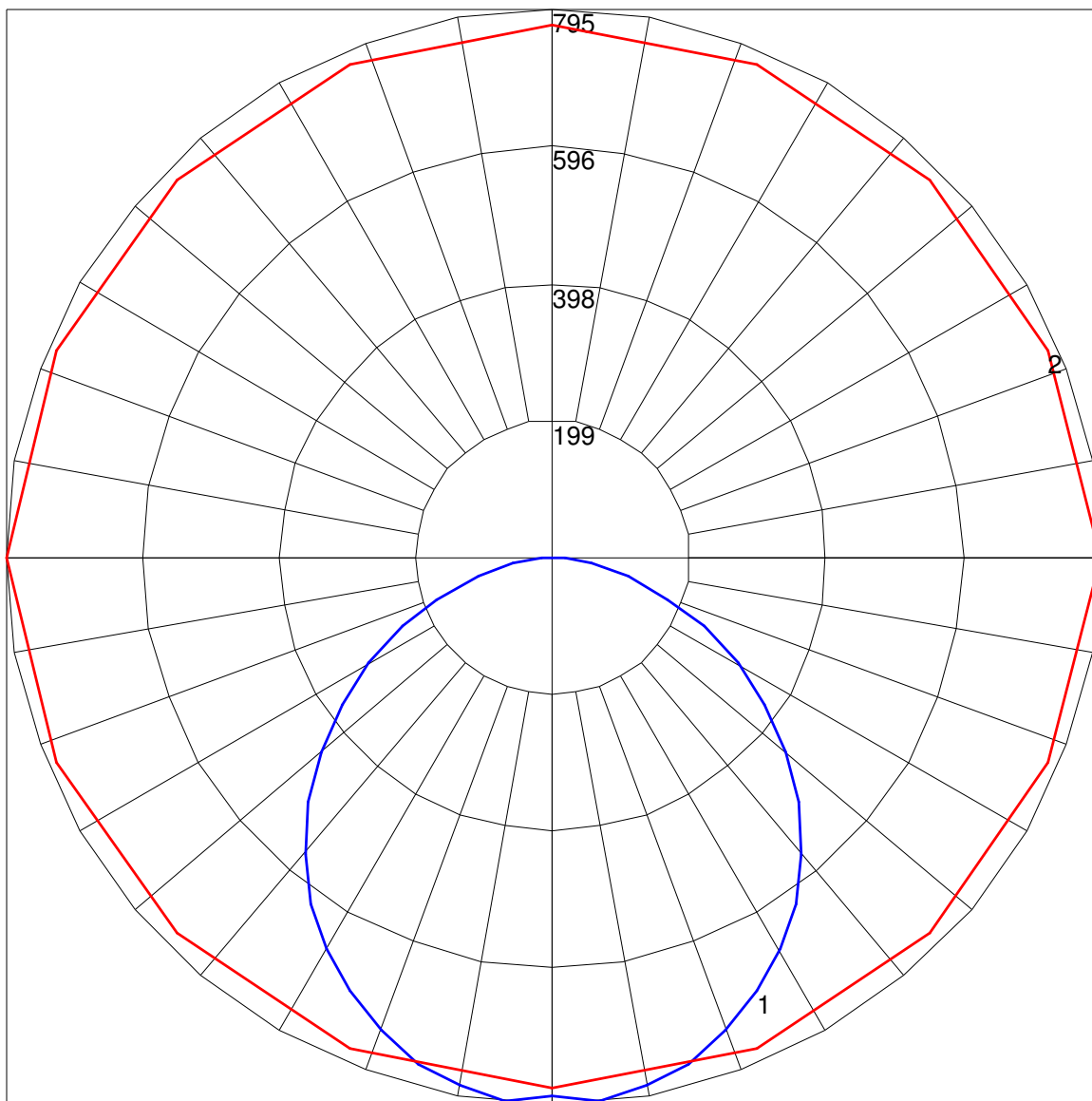
Reflectances

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	14.4	16.0	14.7	16.3	16.7	15.3	17.0	15.7	17.3	17.6
	3H	16.0	17.5	16.4	17.9	18.2	17.2	18.7	17.6	19.1	19.4
	4H	16.6	18.0	17.0	18.3	18.7	17.9	19.3	18.3	19.7	20.1
	6H	16.9	18.2	17.3	18.6	19.0	18.4	19.7	18.8	20.1	20.4
	8H	17.0	18.2	17.4	18.6	19.0	18.5	19.7	18.9	20.1	20.5
	12H	17.0	18.2	17.5	18.6	19.0	18.5	19.7	19.0	20.1	20.5
4H	2H	15.2	16.6	15.6	17.0	17.3	15.9	17.3	16.3	17.7	18.0
	3H	17.1	18.3	17.5	18.7	19.1	18.1	19.2	18.5	19.6	20.0
	4H	17.8	18.9	18.3	19.3	19.7	18.9	19.9	19.3	20.4	20.8
	6H	18.3	19.2	18.7	19.6	20.1	19.4	20.4	19.9	20.8	21.3
	8H	18.4	19.3	18.8	19.7	20.2	19.6	20.4	20.0	20.9	21.4
	12H	18.4	19.2	18.9	19.7	20.2	19.6	20.4	20.1	20.9	21.4
8H	4H	18.2	19.1	18.7	19.5	20.0	19.2	20.0	19.6	20.5	20.9
	6H	18.8	19.6	19.3	20.0	20.5	19.8	20.5	20.3	21.0	21.5
	8H	19.0	19.7	19.5	20.2	20.7	20.0	20.7	20.5	21.2	21.6
	12H	19.1	19.7	19.6	20.2	20.7	20.1	20.7	20.6	21.2	21.7
12H	4H	18.3	19.1	18.7	19.5	20.0	19.2	20.0	19.7	20.4	20.9
	6H	18.9	19.6	19.4	20.0	20.6	19.9	20.5	20.4	21.0	21.5
	8H	19.1	19.7	19.6	20.2	20.8	20.1	20.7	20.6	21.1	21.7

Maximum UGR = 21.7

POLAR GRAPH



Maximum Candela = 795.178 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.)