



IES INDOOR REPORT

PHOTOMETRIC FILENAME : LT-14-L28-940-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-L28-940-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	2420
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	113
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	2298	2370	2503
55	2112	2314	2504
65	1840	2262	2396
75	1390	2018	2119
85	599	982	832

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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	841.732	841.732	841.732	841.732	841.732
5	854.816	838.824	834.463	832.040	830.102
10	840.278	825.740	823.318	821.864	819.441
15	820.410	808.295	805.872	808.295	804.903
20	787.943	777.766	777.766	782.127	782.127
25	750.629	742.876	746.752	754.021	754.506
30	708.470	700.716	708.954	720.585	720.585
35	660.980	655.165	663.888	681.333	682.787
40	605.252	604.283	613.975	635.297	640.143
45	542.740	543.709	559.701	585.384	591.199
50	475.382	480.713	503.004	528.687	537.894
55	404.632	418.201	443.399	467.629	479.744
60	334.367	355.204	383.795	403.663	414.809
65	259.740	283.485	319.344	332.913	338.243
70	191.897	220.488	250.533	257.802	265.070
75	120.178	157.007	174.452	172.998	183.175
80	62.512	90.134	99.341	92.557	99.341
85	17.445	31.014	28.591	24.229	24.229
90	0.000	0.000	0.000	0.000	0.000

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ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixt
0-20	307.45	N.A.	12.70
0-30	652.68	N.A.	27.00
0-40	1070.54	N.A.	44.20
0-60	1901.61	N.A.	78.60
0-80	2381.23	N.A.	98.40
0-90	2420.16	N.A.	100.00
10-90	2340.63	N.A.	96.70
20-40	763.09	N.A.	31.50
20-50	1198.08	N.A.	49.50
40-70	1137.09	N.A.	47.00
60-80	479.61	N.A.	19.80
70-80	173.60	N.A.	7.20
80-90	38.93	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	2420.16	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	79.53
10-20	227.92
20-30	345.24
30-40	417.85
40-50	434.99
50-60	396.08
60-70	306.01
70-80	173.60
80-90	38.93
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

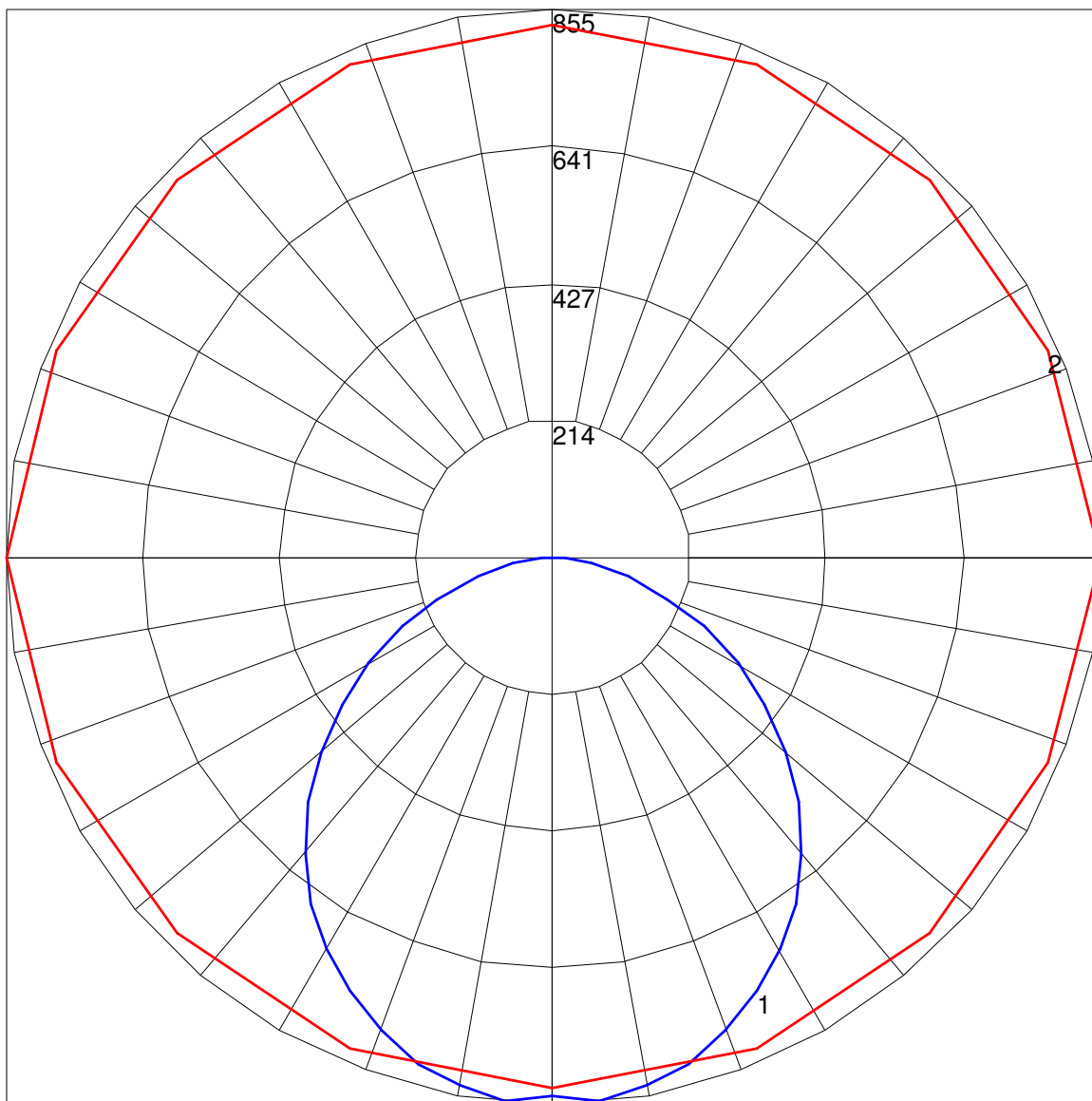
Reflectances

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	14.7	16.3	15.0	16.6	17.0	15.6	17.3	16.0	17.6	17.9
	3H	16.3	17.8	16.7	18.2	18.5	17.5	19.0	17.9	19.4	19.7
	4H	16.9	18.3	17.3	18.6	19.0	18.2	19.6	18.6	20.0	20.4
	6H	17.2	18.5	17.6	18.9	19.3	18.7	20.0	19.1	20.4	20.7
	8H	17.3	18.5	17.7	18.9	19.3	18.8	20.0	19.2	20.4	20.8
	12H	17.3	18.5	17.8	18.9	19.3	18.8	20.0	19.3	20.4	20.8
4H	2H	15.5	16.9	15.9	17.3	17.6	16.2	17.6	16.6	18.0	18.3
	3H	17.4	18.6	17.8	19.0	19.4	18.4	19.5	18.8	19.9	20.3
	4H	18.1	19.2	18.6	19.6	20.0	19.2	20.2	19.6	20.7	21.1
	6H	18.6	19.5	19.0	19.9	20.4	19.7	20.7	20.2	21.1	21.6
	8H	18.7	19.6	19.1	20.0	20.5	19.9	20.7	20.3	21.2	21.7
	12H	18.7	19.5	19.2	20.0	20.5	19.9	20.7	20.4	21.2	21.7
8H	4H	18.5	19.4	19.0	19.8	20.3	19.5	20.3	19.9	20.8	21.2
	6H	19.1	19.9	19.6	20.3	20.8	20.1	20.8	20.6	21.3	21.8
	8H	19.3	20.0	19.8	20.5	21.0	20.3	21.0	20.8	21.5	21.9
	12H	19.4	20.0	19.9	20.5	21.0	20.4	21.0	20.9	21.5	22.0
12H	4H	18.6	19.4	19.0	19.8	20.3	19.5	20.3	20.0	20.7	21.2
	6H	19.2	19.9	19.7	20.3	20.9	20.2	20.8	20.7	21.3	21.8
	8H	19.4	20.0	19.9	20.5	21.1	20.4	21.0	20.9	21.4	22.0

Maximum UGR = 22.0

POLAR GRAPH



Maximum Candela = 854.816 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.)