



IES INDOOR REPORT

PHOTOMETRIC FILENAME : LT-14-L28-950-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-L28-950-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	2505
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	117
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	2378	2452	2590
55	2186	2395	2591
65	1904	2341	2480
75	1439	2088	2193
85	620	1016	861

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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	871.095	871.095	871.095	871.095	871.095
5	884.635	868.086	863.572	861.065	859.059
10	869.590	854.545	852.038	850.534	848.026
15	849.029	836.492	833.984	836.492	832.981
20	815.429	804.898	804.898	809.411	809.411
25	776.814	768.790	772.802	780.324	780.826
30	733.184	725.160	733.685	745.721	745.721
35	684.038	678.020	687.047	705.100	706.605
40	626.366	625.363	635.393	657.458	662.473
45	561.673	562.676	579.225	605.805	611.822
50	491.965	497.482	520.551	547.130	556.658
55	418.747	432.789	458.867	483.942	496.479
60	346.031	367.595	397.183	417.744	429.279
65	268.801	293.374	330.484	344.526	350.043
70	198.592	228.180	259.272	266.795	274.317
75	124.370	162.484	180.538	179.033	189.565
80	64.693	93.278	102.806	95.785	102.806
85	18.054	32.096	29.588	25.075	25.075
90	0.000	0.000	0.000	0.000	0.000

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ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixt
0-20	318.17	N.A.	12.70
0-30	675.45	N.A.	27.00
0-40	1107.88	N.A.	44.20
0-60	1967.95	N.A.	78.60
0-80	2464.29	N.A.	98.40
0-90	2504.58	N.A.	100.00
10-90	2422.28	N.A.	96.70
20-40	789.71	N.A.	31.50
20-50	1239.87	N.A.	49.50
40-70	1176.75	N.A.	47.00
60-80	496.35	N.A.	19.80
70-80	179.66	N.A.	7.20
80-90	40.29	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	2504.58	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	82.30
10-20	235.87
20-30	357.28
30-40	432.43
40-50	450.16
50-60	409.90
60-70	316.69
70-80	179.66
80-90	40.29
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	53	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	46	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

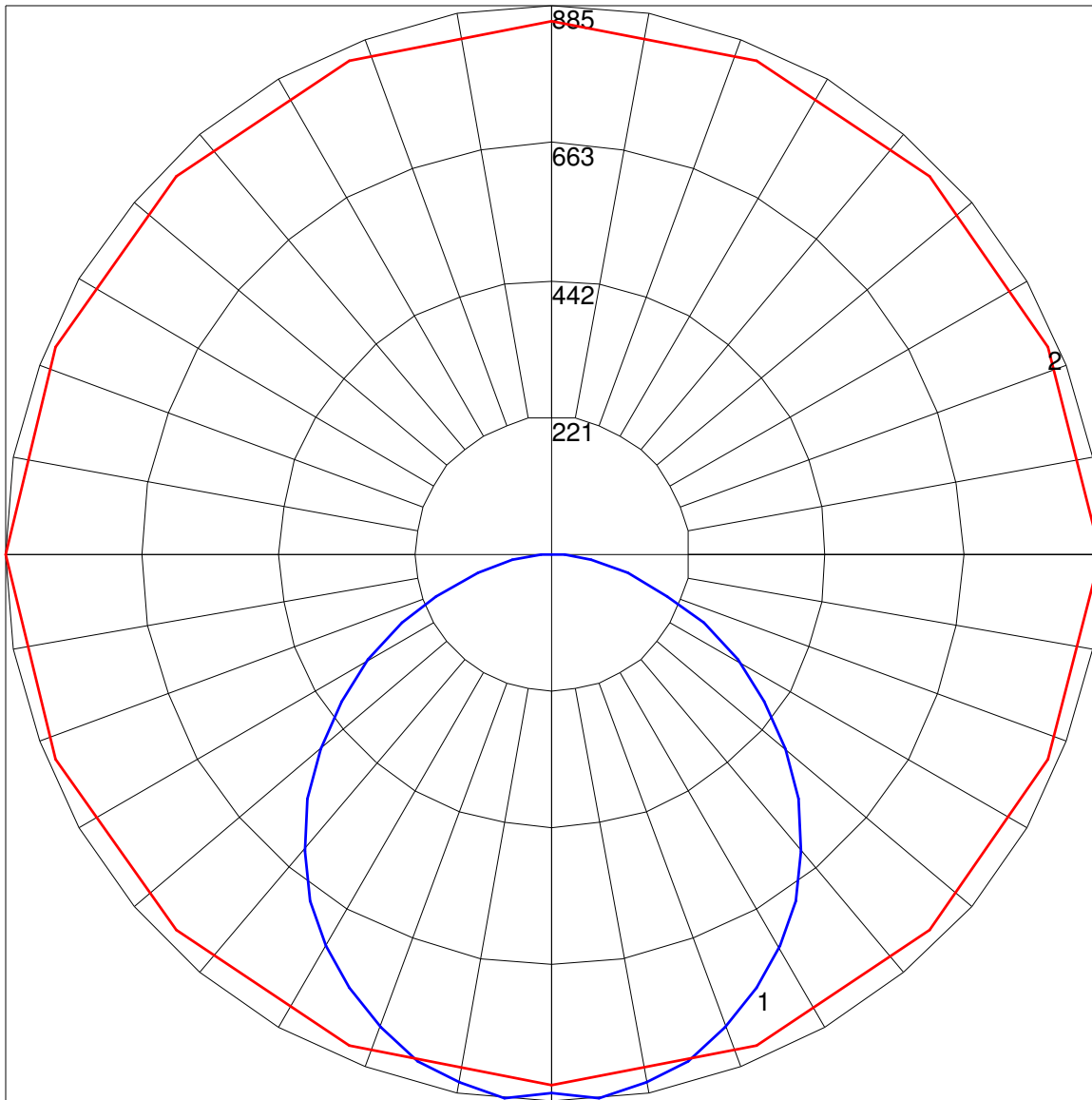
Reflectances

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	14.8	16.4	15.1	16.7	17.1	15.7	17.4	16.1	17.7	18.0
	3H	16.4	17.9	16.8	18.3	18.6	17.6	19.1	18.0	19.5	19.8
	4H	17.0	18.4	17.4	18.7	19.1	18.3	19.7	18.7	20.1	20.5
	6H	17.3	18.6	17.7	19.0	19.4	18.8	20.1	19.2	20.5	20.8
	8H	17.4	18.6	17.8	19.0	19.4	18.9	20.1	19.3	20.5	20.9
	12H	17.4	18.6	17.9	19.0	19.4	18.9	20.1	19.4	20.5	20.9
4H	2H	15.6	17.0	16.0	17.4	17.7	16.3	17.7	16.7	18.1	18.4
	3H	17.5	18.7	17.9	19.1	19.5	18.5	19.6	18.9	20.0	20.4
	4H	18.2	19.3	18.7	19.7	20.1	19.3	20.3	19.7	20.8	21.2
	6H	18.7	19.6	19.1	20.0	20.5	19.8	20.8	20.3	21.2	21.7
	8H	18.8	19.7	19.2	20.1	20.6	20.0	20.9	20.4	21.3	21.8
	12H	18.8	19.6	19.3	20.1	20.6	20.0	20.8	20.5	21.3	21.8
8H	4H	18.6	19.5	19.1	19.9	20.4	19.6	20.4	20.0	20.9	21.3
	6H	19.2	20.0	19.7	20.4	20.9	20.2	20.9	20.7	21.4	21.9
	8H	19.4	20.1	19.9	20.6	21.1	20.4	21.1	20.9	21.6	22.0
	12H	19.5	20.1	20.0	20.6	21.1	20.5	21.1	21.0	21.6	22.1
12H	4H	18.7	19.5	19.1	19.9	20.4	19.6	20.4	20.1	20.8	21.3
	6H	19.3	20.0	19.8	20.4	21.0	20.3	20.9	20.8	21.4	21.9
	8H	19.5	20.1	20.0	20.6	21.2	20.5	21.1	21.0	21.5	22.1

Maximum UGR = 22.1

POLAR GRAPH



Maximum Candela = 884.635 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.)