



IES INDOOR REPORT
PHOTOMETRIC FILENAME : LT-14-L63-830-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-L63-830-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	6199
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	128
Total Luminaire Watts	48.5
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	5886	6070	6411
55	5410	5928	6414
65	4713	5794	6137
75	3561	5169	5427
85	1535	2516	2132

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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	2155.907	2155.907	2155.907	2155.907	2155.907
5	2189.418	2148.460	2137.289	2131.084	2126.119
10	2152.183	2114.948	2108.743	2105.019	2098.813
15	2101.296	2070.266	2064.061	2070.266	2061.578
20	2018.137	1992.073	1992.073	2003.243	2003.243
25	1922.568	1902.709	1912.638	1931.256	1932.497
30	1814.586	1794.727	1815.827	1845.615	1845.615
35	1692.952	1678.058	1700.399	1745.081	1748.804
40	1550.218	1547.735	1572.559	1627.170	1639.582
45	1390.107	1392.589	1433.548	1499.330	1514.224
50	1217.585	1231.238	1288.331	1354.113	1377.695
55	1036.374	1071.127	1135.668	1197.726	1228.755
60	856.405	909.775	983.004	1033.892	1062.439
65	665.265	726.083	817.929	852.682	866.335
70	491.502	564.731	641.683	660.301	678.918
75	307.809	402.138	446.820	443.097	469.161
80	160.111	230.857	254.439	237.063	254.439
85	44.682	79.435	73.229	62.058	62.058
90	0.000	0.000	0.000	0.000	0.000

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ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixt
0-20	787.46	N.A.	12.70
0-30	1671.7	N.A.	27.00
0-40	2741.94	N.A.	44.20
0-60	4870.55	N.A.	78.60
0-80	6098.98	N.A.	98.40
0-90	6198.69	N.A.	100.00
10-90	5995.00	N.A.	96.70
20-40	1954.48	N.A.	31.50
20-50	3068.61	N.A.	49.50
40-70	2912.39	N.A.	47.00
60-80	1228.43	N.A.	19.80
70-80	444.64	N.A.	7.20
80-90	99.71	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	6198.69	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	203.69
10-20	583.76
20-30	884.24
30-40	1070.24
40-50	1114.13
50-60	1014.48
60-70	783.78
70-80	444.64
80-90	99.71
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	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

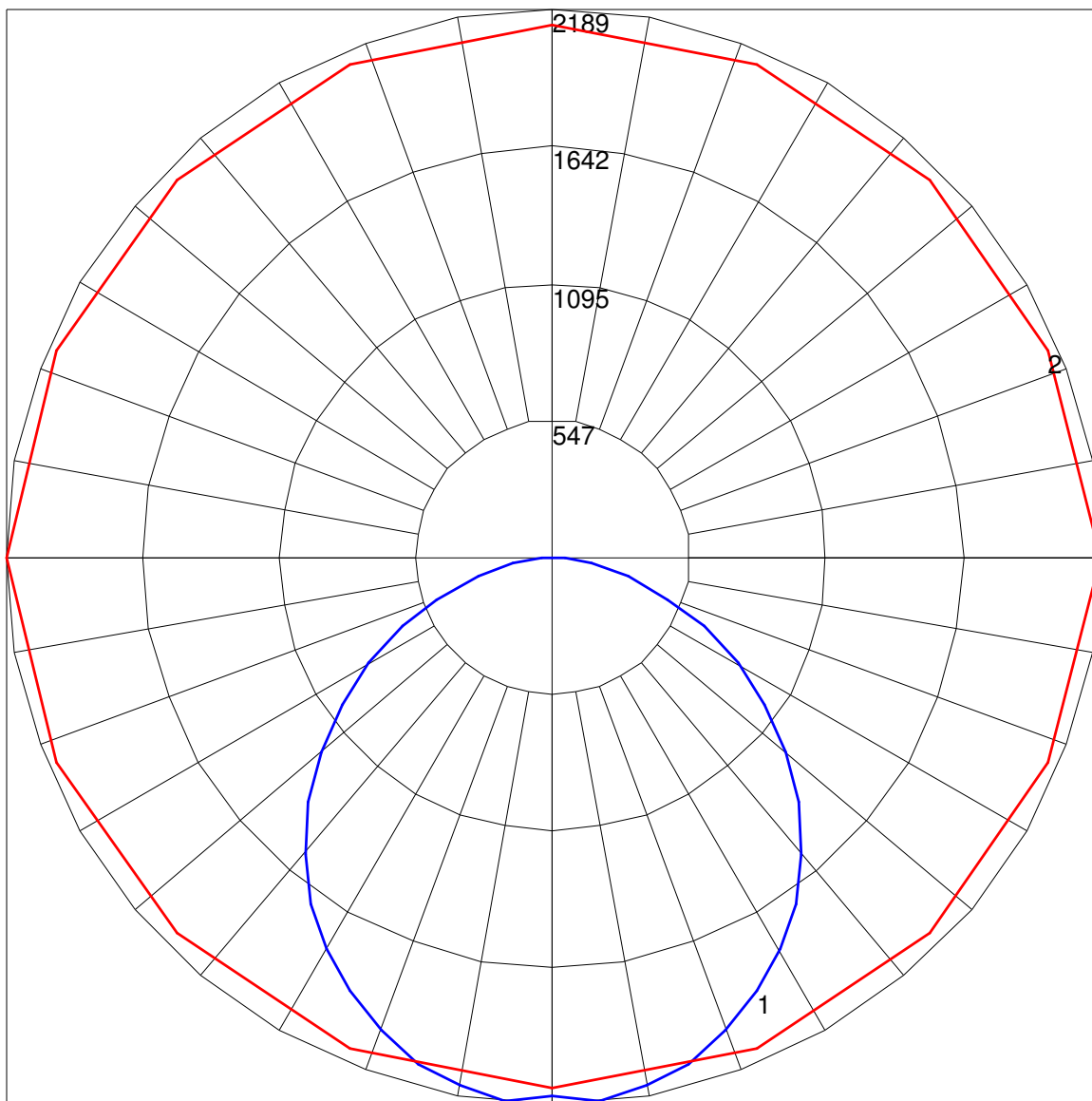
X=2H	Y=2H	17.9	19.5	18.2	19.8	20.2	18.8	20.5	19.2	20.8	21.1
	3H	19.5	21.0	19.9	21.4	21.7	20.7	22.2	21.1	22.6	22.9
	4H	20.1	21.5	20.5	21.8	22.2	21.4	22.8	21.8	23.2	23.6
	6H	20.4	21.7	20.8	22.1	22.5	21.9	23.2	22.3	23.6	23.9
	8H	20.5	21.7	20.9	22.1	22.5	22.0	23.2	22.4	23.6	24.0
	12H	20.5	21.7	21.0	22.1	22.5	22.0	23.2	22.5	23.6	24.0

UGR Viewed Endwise

4H	2H	18.7	20.1	19.1	20.5	20.8	19.4	20.8	19.8	21.2	21.5
	3H	20.6	21.8	21.0	22.2	22.6	21.6	22.7	22.0	23.1	23.5
	4H	21.3	22.4	21.8	22.8	23.2	22.4	23.4	22.8	23.9	24.3
	6H	21.8	22.7	22.2	23.1	23.6	22.9	23.9	23.4	24.3	24.8
	8H	21.9	22.8	22.3	23.2	23.7	23.1	23.9	23.5	24.4	24.9
	12H	21.9	22.7	22.4	23.2	23.7	23.1	23.9	23.6	24.4	24.9
8H	4H	21.7	22.6	22.2	23.0	23.5	22.7	23.5	23.1	24.0	24.4
	6H	22.3	23.1	22.8	23.5	24.0	23.3	24.0	23.8	24.5	25.0
	8H	22.5	23.2	23.0	23.7	24.2	23.5	24.2	24.0	24.7	25.1
	12H	22.6	23.2	23.1	23.7	24.2	23.6	24.2	24.1	24.7	25.2
12H	4H	21.8	22.6	22.2	23.0	23.5	22.7	23.5	23.2	23.9	24.4
	6H	22.4	23.1	22.9	23.5	24.1	23.4	24.0	23.9	24.5	25.0
	8H	22.6	23.2	23.1	23.7	24.3	23.6	24.2	24.1	24.6	25.2

Maximum UGR = 25.2

POLAR GRAPH



Maximum Candela = 2189.418 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.)