



IES INDOOR REPORT
PHOTOMETRIC FILENAME : LT-14-L63-935-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-L63-935-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	5197
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	107
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	4935	5089	5375
55	4535	4970	5377
65	3951	4858	5145
75	2985	4333	4550
85	1287	2109	1787

IES INDOOR REPORT
PHOTOMETRIC FILENAME : LT-14-L63-935-AF-DIM-UNV_.IES

CANDELA TABULATION

	<u>0.0</u>	<u>22.5</u>	<u>45.0</u>	<u>67.5</u>	<u>90.0</u>
0	1807.479	1807.479	1807.479	1807.479	1807.479
5	1835.574	1801.235	1791.870	1786.667	1782.505
10	1804.357	1773.140	1767.937	1764.815	1759.612
15	1761.694	1735.679	1730.476	1735.679	1728.395
20	1691.975	1670.123	1670.123	1679.488	1679.488
25	1611.851	1595.202	1603.526	1619.135	1620.175
30	1521.321	1504.671	1522.361	1547.335	1547.335
35	1419.344	1406.857	1425.588	1463.048	1466.170
40	1299.678	1297.597	1318.409	1364.194	1374.600
45	1165.444	1167.525	1201.864	1257.015	1269.502
50	1020.804	1032.250	1080.117	1135.267	1155.038
55	868.880	898.016	952.126	1004.155	1030.169
60	717.997	762.741	824.135	866.799	890.732
65	557.748	608.736	685.739	714.875	726.321
70	412.068	473.462	537.977	553.586	569.195
75	258.063	337.146	374.607	371.485	393.337
80	134.234	193.547	213.318	198.750	213.318
85	37.461	66.597	61.394	52.029	52.029
90	0.000	0.000	0.000	0.000	0.000

IES INDOOR REPORT
PHOTOMETRIC FILENAME : LT-14-L63-935-AF-DIM-UNV_.IES

ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixt
0-20	660.19	N.A.	12.70
0-30	1401.53	N.A.	27.00
0-40	2298.8	N.A.	44.20
0-60	4083.39	N.A.	78.60
0-80	5113.29	N.A.	98.40
0-90	5196.89	N.A.	100.00
10-90	5026.11	N.A.	96.70
20-40	1638.61	N.A.	31.50
20-50	2572.68	N.A.	49.50
40-70	2441.7	N.A.	47.00
60-80	1029.89	N.A.	19.80
70-80	372.78	N.A.	7.20
80-90	83.60	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	5196.89	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	170.77
10-20	489.42
20-30	741.34
30-40	897.27
40-50	934.07
50-60	850.53
60-70	657.11
70-80	372.78
80-90	83.60
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

IES INDOOR REPORT
PHOTOMETRIC FILENAME : LT-14-L63-935-AF-DIM-UNV_.IES

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

IES INDOOR REPORT
PHOTOMETRIC FILENAME : LT-14-L63-935-AF-DIM-UNV_.IES

UGR TABLE - CORRECTED

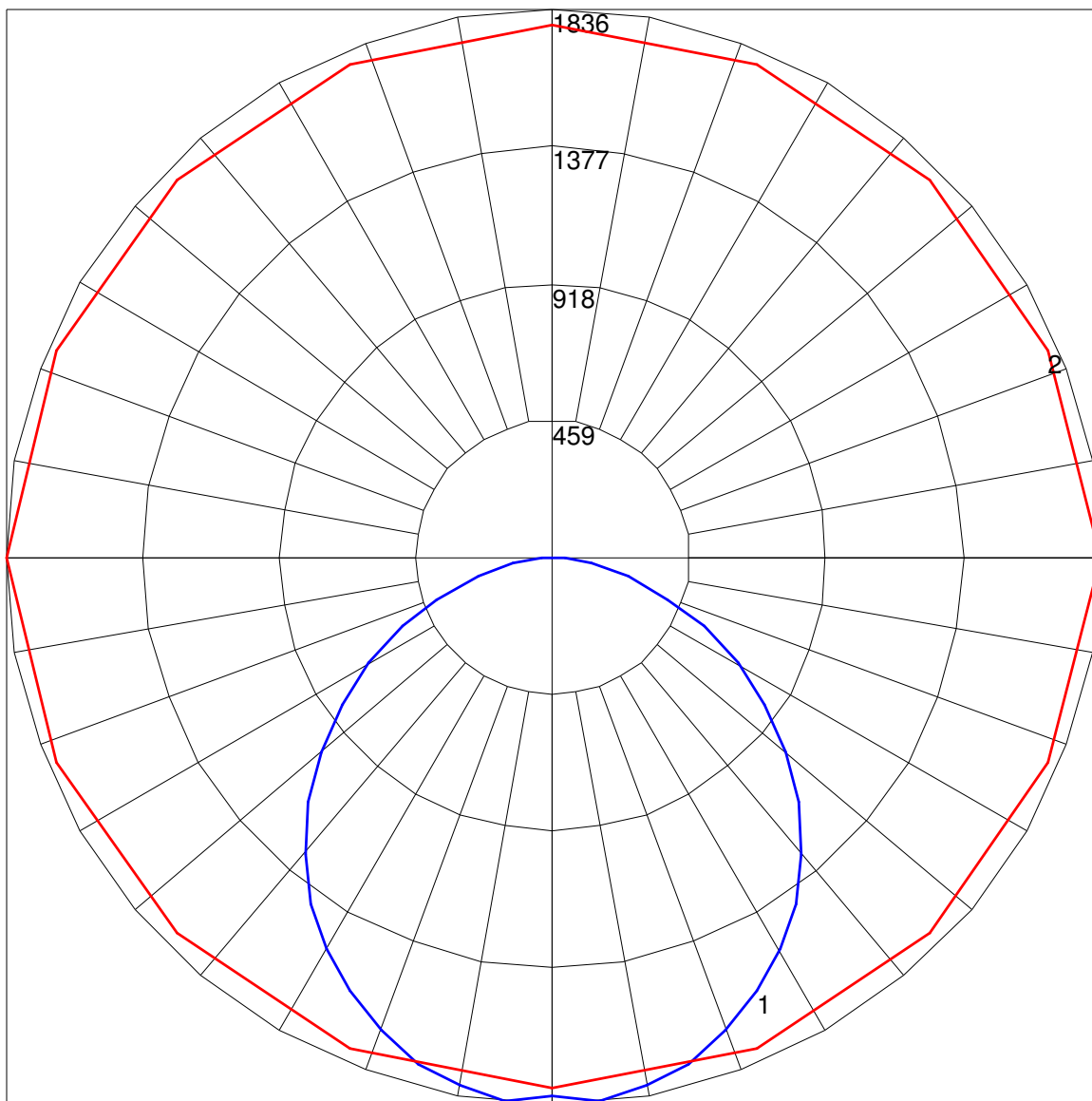
Reflectances

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	17.3	18.9	17.6	19.2	19.6	18.2	19.9	18.6	20.2	20.5
	3H	18.9	20.4	19.3	20.8	21.1	20.1	21.6	20.5	22.0	22.3
	4H	19.5	20.9	19.9	21.2	21.6	20.8	22.2	21.2	22.6	23.0
	6H	19.8	21.1	20.2	21.5	21.9	21.3	22.6	21.7	23.0	23.3
	8H	19.9	21.1	20.3	21.5	21.9	21.4	22.6	21.8	23.0	23.4
	12H	19.9	21.1	20.4	21.5	21.9	21.4	22.6	21.9	23.0	23.4
4H	2H	18.1	19.5	18.5	19.9	20.2	18.8	20.2	19.2	20.6	20.9
	3H	20.0	21.2	20.4	21.6	22.0	21.0	22.1	21.4	22.5	22.9
	4H	20.7	21.8	21.2	22.2	22.6	21.8	22.8	22.2	23.3	23.7
	6H	21.2	22.1	21.6	22.5	23.0	22.3	23.3	22.8	23.7	24.2
	8H	21.3	22.2	21.7	22.6	23.1	22.5	23.3	22.9	23.8	24.3
	12H	21.3	22.1	21.8	22.6	23.1	22.5	23.3	23.0	23.8	24.3
8H	4H	21.1	22.0	21.6	22.4	22.9	22.1	22.9	22.5	23.4	23.8
	6H	21.7	22.5	22.2	22.9	23.4	22.7	23.4	23.2	23.9	24.4
	8H	21.9	22.6	22.4	23.1	23.6	22.9	23.6	23.4	24.1	24.5
	12H	22.0	22.6	22.5	23.1	23.6	23.0	23.6	23.5	24.1	24.6
12H	4H	21.2	22.0	21.6	22.4	22.9	22.1	22.9	22.6	23.3	23.8
	6H	21.8	22.5	22.3	22.9	23.5	22.8	23.4	23.3	23.9	24.4
	8H	22.0	22.6	22.5	23.1	23.7	23.0	23.6	23.5	24.0	24.6

Maximum UGR = 24.6

POLAR GRAPH



Maximum Candela = 1835.574 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.)