



IES INDOOR REPORT
PHOTOMETRIC FILENAME : PTS-22-L38-835-RA-TBOX.IES

DESCRIPTION INFORMATION (From Photometric File)

IESNA:LM-63-2002
 [TEST]GEN from BALLABS TEST NO. 19562.0
 [TESTLAB] BUILDING ACOUSTICS & LIGHTING LABORATORIES, INC
 [ISSUE DATE] 12-OCT-2016
 [MANUFAC] WILLIAMS INDOOR
 [OTHER] H.E. WILLIAMS, INC - CARTHAGE, MO
 [LUMINAIRE] 1-22" LED ARRAY 2x2'RECESSED LUMINAIRE
 [MORE] WHITE REFLECTOR w/CENTER FROSTED RIBBED ACRYLIC LENS
 [MORE] EVERLINE #D10CC55UNVTZ-C @ 76 SETPOINT
 [LUMCAT] PTS-22-L38-835-RA-xxx-xxx
 [LAMPCAT] M700C840D72N2A
 [_SEARCH_SOURCETYPE] LED
 [_SEARCH_APPLICATION] Indoor, Architectural, Office, Direct
 [_SEARCH_MOUNTING] Recessed

CHARACTERISTICS

Lumens Per Lamp	N.A. (absolute)
Total Lamp Lumens	N.A. (absolute)
Luminaire Lumens	3804
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	117
Total Luminaire Watts	32.6
Ballast Factor	1.00
CIE Type	Direct
Spacing Criterion (0-180)	1.24
Spacing Criterion (90-270)	1.24
Spacing Criterion (Diagonal)	1.34
Basic Luminous Shape	Rectangular
Luminous Length (0-180)	1.92 ft
Luminous Width (90-270)	1.93 ft
Luminous Height	0.00 ft

LUMINANCE DATA (cd/sq.m)

Angle In Degrees	Average 0-Deg	Average 45-Deg	Average 90-Deg
45	3574	3707	3828
55	3022	3329	3553
65	2310	2889	3212
75	1605	2562	3167
85	914	2090	2612

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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	1453.752	1453.752	1453.752	1453.752	1453.752
5	1458.640	1449.841	1447.886	1442.998	1442.998
10	1439.087	1430.288	1429.311	1424.422	1423.445
15	1404.870	1395.093	1394.116	1392.160	1391.183
20	1355.988	1347.189	1346.211	1347.189	1347.189
25	1287.553	1278.754	1284.620	1288.530	1284.620
30	1203.476	1199.565	1205.431	1212.274	1207.386
35	1106.689	1105.712	1118.421	1123.309	1128.197
40	995.238	995.238	1016.746	1025.545	1033.366
45	868.145	868.145	900.407	920.938	929.736
50	734.208	735.186	778.202	805.576	818.285
55	595.383	606.137	655.997	685.326	699.991
60	459.491	480.999	530.859	563.121	578.763
65	335.331	363.682	419.408	454.603	466.335
70	225.835	261.030	316.756	352.928	366.615
75	142.736	176.953	227.790	263.963	281.561
80	77.234	106.563	151.534	176.953	194.550
85	27.374	47.904	62.569	62.569	78.211
90	0.000	0.000	0.000	0.000	0.000

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ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixt
0-20	531.15	N.A.	14.00
0-30	1122.39	N.A.	29.50
0-40	1819.54	N.A.	47.80
0-60	3091.13	N.A.	81.30
0-80	3734.22	N.A.	98.20
0-90	3803.81	N.A.	100.00
10-90	3666.21	N.A.	96.40
20-40	1288.39	N.A.	33.90
20-50	1979.69	N.A.	52.00
40-70	1679.83	N.A.	44.20
60-80	643.09	N.A.	16.90
70-80	234.85	N.A.	6.20
80-90	69.58	N.A.	1.80
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	3803.81	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	137.60
10-20	393.55
20-30	591.24
30-40	697.15
40-50	691.30
50-60	580.30
60-70	408.24
70-80	234.85
80-90	69.58
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	97	106	102	98	95	98	95	92	94	91	89	90	88	86	84
2	100	91	85	79	97	90	83	78	86	81	76	83	79	75	80	76	73	71
3	91	81	73	66	89	79	72	66	76	70	65	73	68	63	71	66	62	60
4	83	72	63	57	81	70	62	56	68	61	55	66	60	55	63	58	54	52
5	77	64	55	49	75	63	55	49	61	54	48	59	53	48	57	52	47	45
6	71	58	49	43	69	57	49	43	55	48	42	54	47	42	52	46	42	40
7	66	53	44	38	64	52	44	38	50	43	38	49	42	37	48	42	37	35
8	62	48	40	34	60	47	39	34	46	39	34	45	38	33	44	38	33	31
9	58	44	36	31	56	44	36	31	43	35	30	41	35	30	40	34	30	28
10	54	41	33	28	53	40	33	28	39	32	28	38	32	28	38	32	27	26

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UGR TABLE - CORRECTED

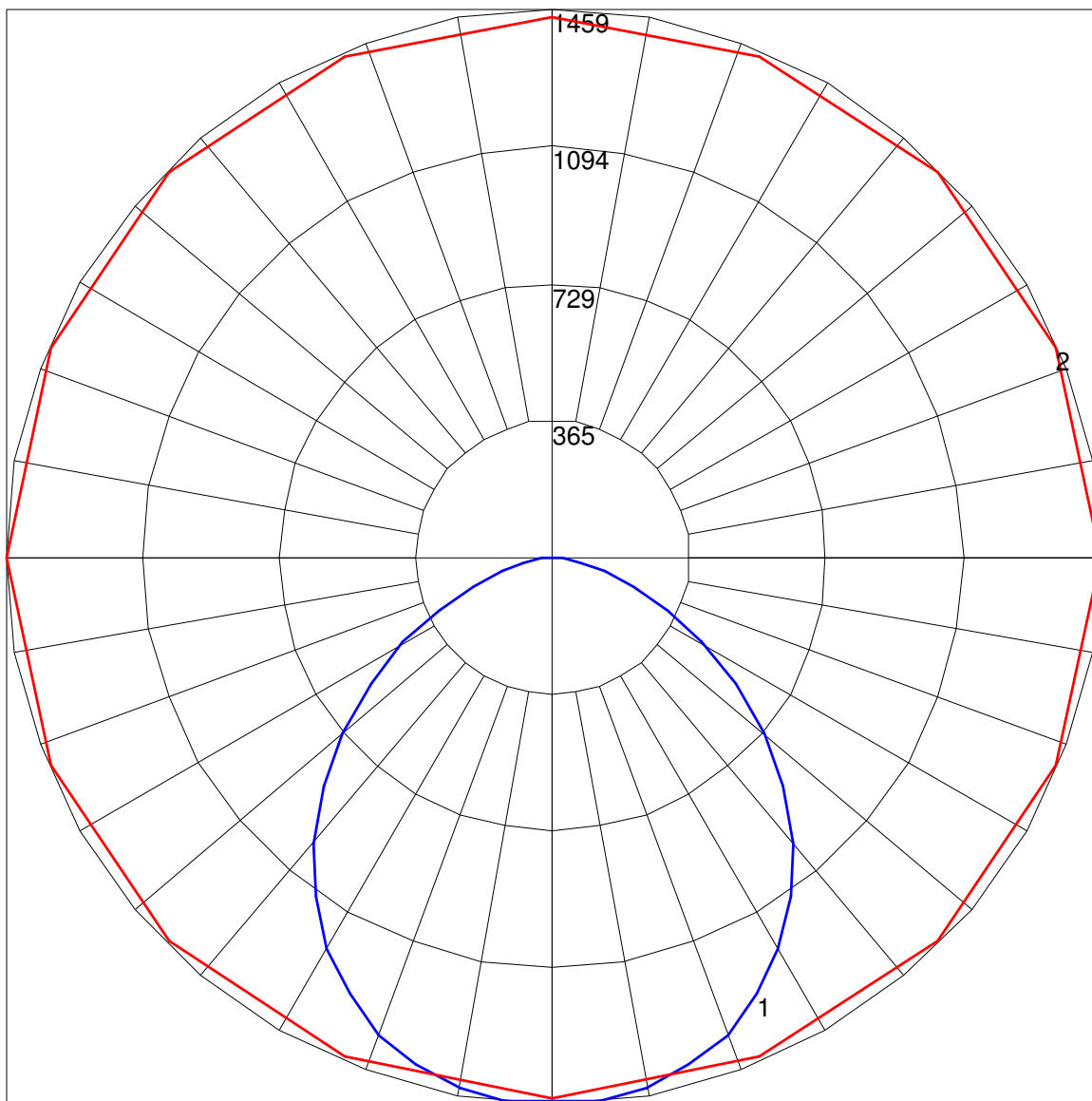
Reflectances

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	15.4	17.0	15.7	17.3	17.6	16.4	18.0	16.8	18.3	18.6
	3H	16.7	18.1	17.0	18.4	18.8	18.2	19.7	18.6	20.0	20.4
	4H	17.1	18.4	17.5	18.8	19.2	19.0	20.4	19.4	20.7	21.1
	6H	17.3	18.6	17.8	19.0	19.4	19.7	21.0	20.1	21.3	21.7
	8H	17.4	18.6	17.8	19.0	19.4	19.9	21.1	20.4	21.5	21.9
	12H	17.4	18.6	17.9	19.0	19.4	20.1	21.2	20.5	21.6	22.1
4H	2H	16.1	17.4	16.5	17.8	18.2	16.9	18.3	17.3	18.6	19.0
	3H	17.6	18.7	18.0	19.1	19.5	19.0	20.1	19.4	20.5	20.9
	4H	18.2	19.2	18.6	19.6	20.0	19.9	20.9	20.3	21.3	21.8
	6H	18.5	19.4	19.0	19.9	20.3	20.8	21.7	21.2	22.1	22.6
	8H	18.6	19.5	19.1	19.9	20.4	21.1	21.9	21.5	22.3	22.8
	12H	18.7	19.5	19.2	19.9	20.4	21.3	22.0	21.7	22.5	23.0
8H	4H	18.6	19.4	19.1	19.9	20.3	20.2	21.0	20.6	21.4	21.9
	6H	19.1	19.8	19.6	20.3	20.8	21.1	21.8	21.6	22.3	22.8
	8H	19.3	19.9	19.8	20.5	20.9	21.5	22.2	22.1	22.7	23.2
	12H	19.4	20.0	19.9	20.5	21.0	21.8	22.4	22.3	22.8	23.4
12H	4H	18.7	19.4	19.2	19.9	20.4	20.2	20.9	20.6	21.4	21.9
	6H	19.3	19.9	19.8	20.4	20.9	21.2	21.8	21.7	22.3	22.8
	8H	19.5	20.1	20.0	20.6	21.1	21.6	22.2	22.1	22.7	23.2

Maximum UGR = 23.4

POLAR GRAPH



Maximum Candela = 1458.64 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.)