



IES INDOOR REPORT
PHOTOMETRIC FILENAME : PTS-22-L38-840-RA-XXX-XXX.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' SURFACE LUMINAIRE
[MORE] WHITE REFLECTOR w/CENTER FROSTED RIBBED ACRYLIC LENS
[MORE] EVERLINE #D10CC55UNVTZ-C
[LUMCAT] PTS-22-L38-840-RA-xxx-xxx
[LAMPCAT] HLM 80 CRI 4000K CCT
[_SEARCH_SOURCETYPE] LED
[_SEARCH_APPLICATION] Indoor, Architectural, Office, Direct
[_SEARCH_MOUNTING] Surface

CHARACTERISTICS

Lumens Per Lamp	N.A. (absolute)
Total Lamp Lumens	N.A. (absolute)
Luminaire Lumens	3921
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	106
Total Luminaire Watts	37
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	3684	3821	3945
55	3115	3432	3662
65	2381	2978	3311
75	1655	2641	3264
85	942	2154	2693

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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	1498.465	1498.465	1498.465	1498.465	1498.465
5	1503.503	1494.434	1492.418	1487.380	1487.380
10	1483.349	1474.280	1473.272	1468.233	1467.226
15	1448.079	1438.002	1436.994	1434.979	1433.971
20	1397.694	1388.624	1387.617	1388.624	1388.624
25	1327.154	1318.085	1324.131	1328.162	1324.131
30	1240.491	1236.460	1242.506	1249.560	1244.522
35	1140.728	1139.720	1152.820	1157.859	1162.897
40	1025.849	1025.849	1048.018	1057.088	1065.149
45	894.846	894.846	928.101	949.263	958.332
50	756.790	757.798	802.137	830.353	843.453
55	613.695	624.780	676.173	706.405	721.520
60	473.624	495.793	547.187	580.441	596.564
65	345.645	374.868	432.308	468.585	480.678
70	232.781	269.059	326.498	363.783	377.891
75	147.126	182.396	234.796	272.082	290.220
80	79.609	109.840	156.195	182.396	200.534
85	28.216	49.378	64.493	64.493	80.617
90	0.000	0.000	0.000	0.000	0.000

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ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixt
0-20	547.48	N.A.	14.00
0-30	1156.91	N.A.	29.50
0-40	1875.5	N.A.	47.80
0-60	3186.2	N.A.	81.30
0-80	3849.08	N.A.	98.20
0-90	3920.8	N.A.	100.00
10-90	3778.97	N.A.	96.40
20-40	1328.02	N.A.	33.90
20-50	2040.58	N.A.	52.00
40-70	1731.5	N.A.	44.20
60-80	662.87	N.A.	16.90
70-80	242.07	N.A.	6.20
80-90	71.72	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	3920.8	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	141.83
10-20	405.66
20-30	609.42
30-40	718.60
40-50	712.56
50-60	598.14
60-70	420.80
70-80	242.07
80-90	71.72
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

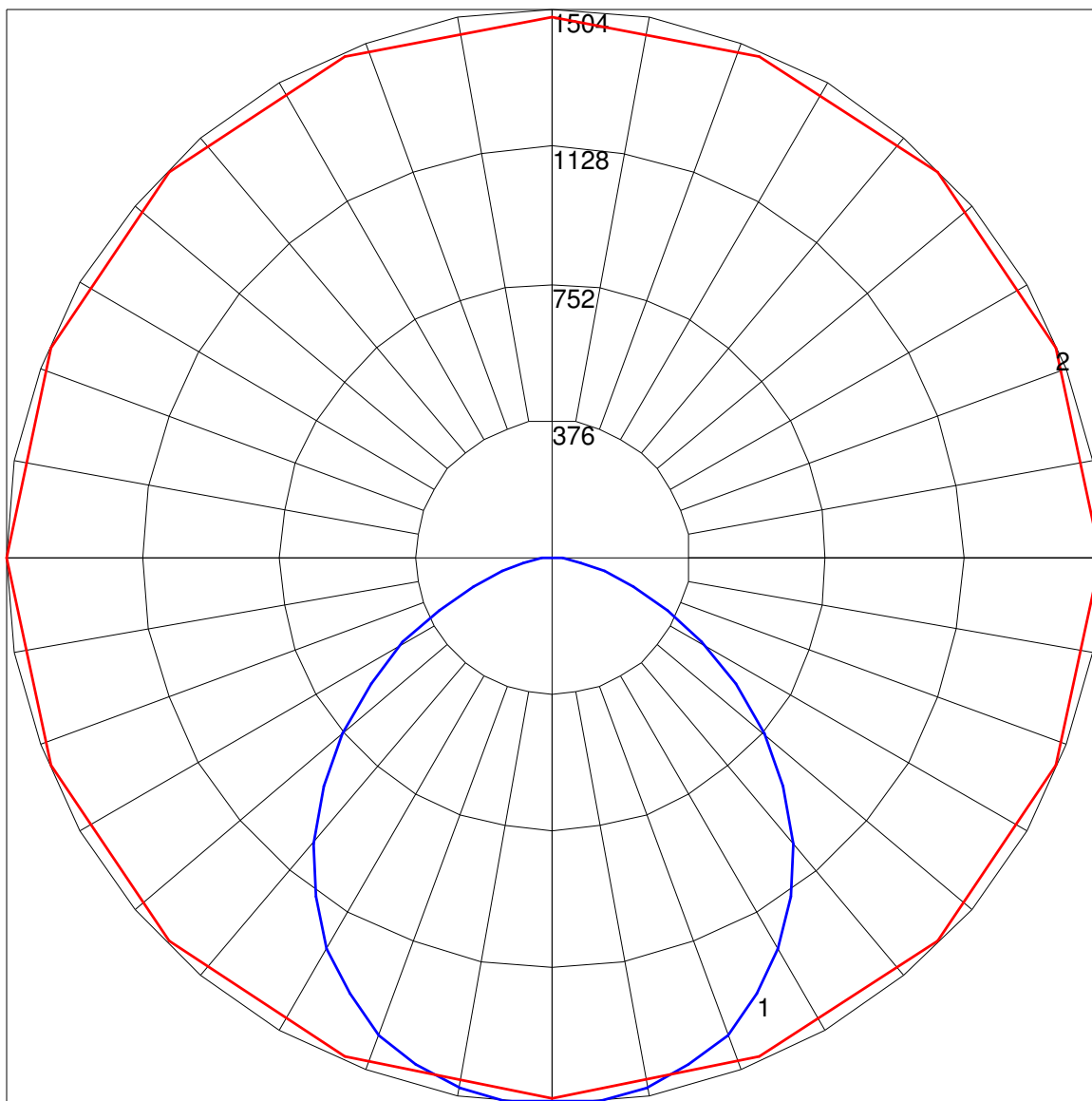
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COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD

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

POLAR GRAPH



Maximum Candela = 1503.503 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.)