



IES INDOOR REPORT

PHOTOMETRIC FILENAME : PTS-14-L45-835-SA.IES

DESCRIPTION INFORMATION (From Photometric File)

IESNA:LM-63-2002
 [TEST]GEN from BALLABS TEST NO. 20790.0
 [TESTLAB] BUILDING ACOUSTICS & LIGHTING LABORATORIES, INC
 [ISSUE DATE] 03-MAY-2019
 [MANUFAC] WILLIAMS INDOOR
 [OTHER] H.E. WILLIAMS, INC - CARTHAGE, MO
 [LUMINAIRE] 2-84 LED 22"ARRAYS w/WHITE REFLECTOR
 [MORE] FROST SQUARED RIBBED LENS - 1x4 SURFACE LUMINAIRE
 [MORE] ADVANCE #XI075C200V054BST1 @ 1525mA
 [LUMCAT] PTS-14-L45-835-SA-DIM-UNV
 [LAMPCAT] HLM 80 CRI 3500K CCT

CHARACTERISTICS

Lumens Per Lamp	N.A. (absolute)
Total Lamp Lumens	N.A. (absolute)
Luminaire Lumens	4662
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	138
Total Luminaire Watts	33.7
Ballast Factor	1.00
CIE Type	Direct
Spacing Criterion (0-180)	1.20
Spacing Criterion (90-270)	1.16
Spacing Criterion (Diagonal)	1.28
Basic Luminous Shape	Rectangular
Luminous Length (0-180)	3.92 ft
Luminous Width (90-270)	0.98 ft
Luminous Height	0.00 ft

LUMINANCE DATA (cd/sq.m)

Angle In Degrees	Average 0-Deg	Average 45-Deg	Average 90-Deg
45	4166	4036	4007
55	3749	3771	3854
65	3275	3625	3970
75	2644	3660	4566
85	1225	3950	4773

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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	1815.589	1815.589	1815.589	1815.589	1815.589
5	1824.609	1804.564	1794.542	1769.485	1792.537
10	1789.530	1767.982	1754.952	1752.447	1755.955
15	1730.397	1709.350	1697.824	1693.815	1690.808
20	1651.720	1631.174	1612.131	1602.609	1604.113
25	1553.499	1536.460	1528.442	1503.386	1493.864
30	1438.740	1421.201	1403.160	1389.630	1382.113
35	1319.472	1303.436	1281.887	1263.345	1252.822
40	1182.664	1169.634	1147.083	1132.551	1124.031
45	1050.366	1035.332	1017.792	1009.774	1010.275
50	910.551	906.041	886.998	890.506	895.016
55	766.727	766.727	771.237	783.264	788.275
60	632.925	635.932	656.478	677.025	689.553
65	493.612	511.652	546.230	581.810	598.348
70	359.810	389.878	439.490	487.097	506.641
75	244.050	275.120	337.761	399.400	421.449
80	127.788	180.907	246.054	311.201	331.747
85	38.086	85.693	122.777	139.314	148.334
90	0.000	1.503	2.005	3.508	2.005

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ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixt
0-20	649.64	N.A.	13.90
0-30	1349.8	N.A.	29.00
0-40	2152.05	N.A.	46.20
0-60	3636.99	N.A.	78.00
0-80	4535.77	N.A.	97.30
0-90	4662.21	N.A.	100.00
10-90	4491.83	N.A.	96.30
20-40	1502.41	N.A.	32.20
20-50	2292.87	N.A.	49.20
40-70	2026.77	N.A.	43.50
60-80	898.78	N.A.	19.30
70-80	356.95	N.A.	7.70
80-90	126.45	N.A.	2.70
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	4662.21	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	170.38
10-20	479.26
20-30	700.16
30-40	802.25
40-50	790.47
50-60	694.47
60-70	541.83
70-80	356.95
80-90	126.45
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

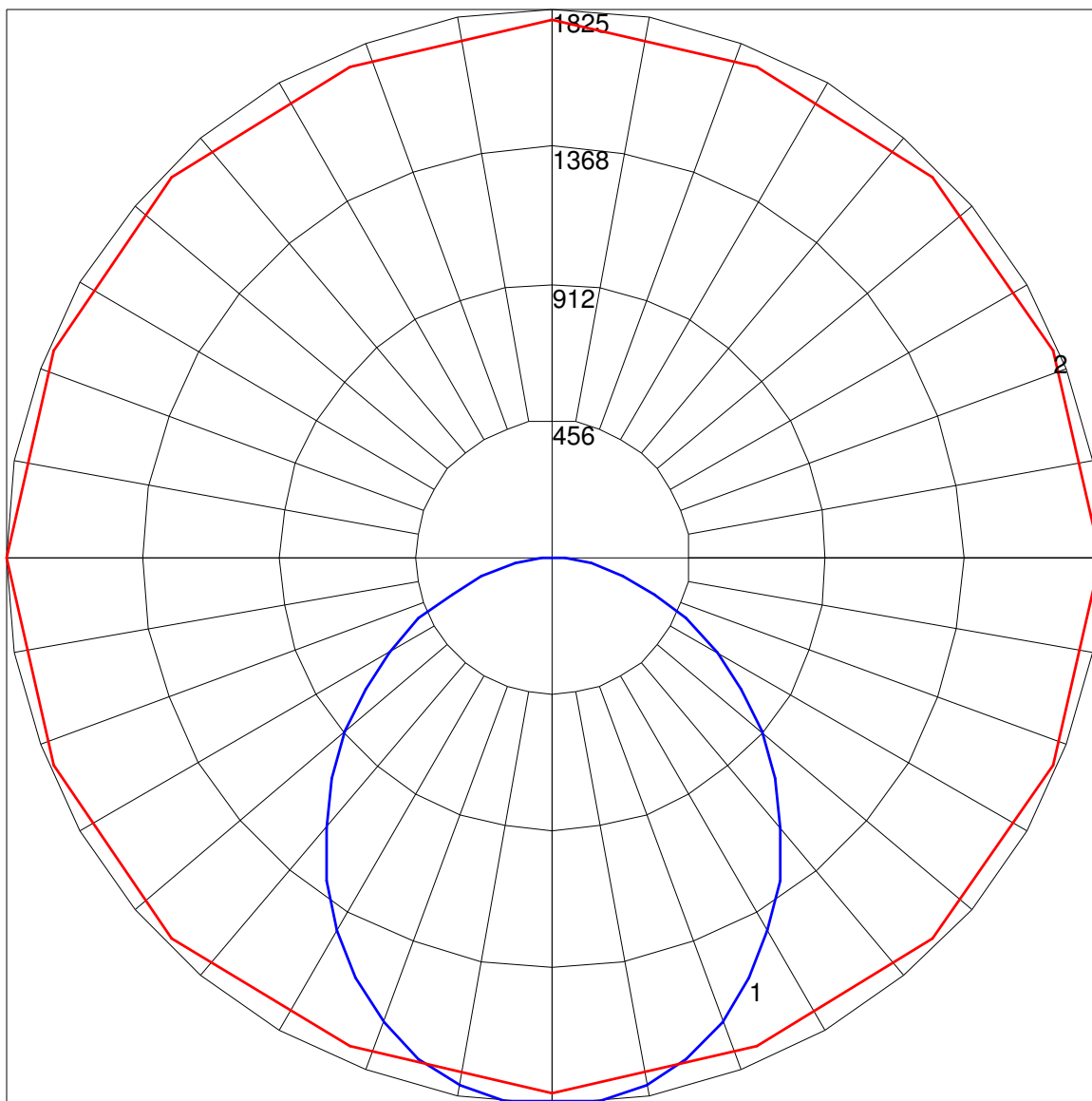
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COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD

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	89	89	89	89	87	87	87	87	83	83	83	79	79	79	76	76	76	75
1	81	77	74	71	79	76	73	70	72	70	68	69	67	66	67	65	64	62
2	74	67	62	58	72	66	61	57	63	59	56	61	57	55	59	56	53	52
3	67	59	53	48	65	58	52	48	56	51	47	54	50	46	52	48	45	44
4	62	53	46	41	60	52	45	41	50	44	40	48	43	40	46	42	39	37
5	57	47	40	35	55	46	40	35	45	39	35	43	38	34	42	38	34	33
6	53	43	36	31	51	42	36	31	40	35	31	39	34	30	38	34	30	29
7	49	39	32	28	47	38	32	27	37	31	27	36	31	27	35	30	27	25
8	45	35	29	25	44	35	29	25	34	28	24	33	28	24	32	28	24	23
9	43	33	26	22	41	32	26	22	31	26	22	30	26	22	30	25	22	21
10	40	30	24	20	39	30	24	20	29	24	20	28	23	20	28	23	20	19

POLAR GRAPH



Maximum Candela = 1824.609 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.)