



IES INDOOR REPORT

PHOTOMETRIC FILENAME : PTS-24-L49-835-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
 [ISSUEDATE] 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 - 2x4 SURFACE LUMINAIRE
 [MORE] ADVANCE #XI075C200V054BST1 @ 1525mA
 [LUMCAT] PTS-24-L49-835-SA-DIM-UNV
 [LAMPCAT] HLM 80 CRI 3500K CCT

CHARACTERISTICS

Lumens Per Lamp	N.A. (absolute)
Total Lamp Lumens	N.A. (absolute)
Luminaire Lumens	5076
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	136
Total Luminaire Watts	37.2
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)	1.98 ft
Luminous Height	0.00 ft

LUMINANCE DATA (cd/sq.m)

Angle In Degrees	Average 0-Deg	Average 45-Deg	Average 90-Deg
45	2244	2174	2158
55	2019	2031	2076
65	1764	1952	2139
75	1424	1971	2460
85	660	2128	2571

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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	1976.819	1976.819	1976.819	1976.819	1976.819
5	1986.640	1964.815	1953.902	1926.621	1951.720
10	1948.446	1924.984	1910.798	1908.069	1911.889
15	1884.062	1861.145	1848.596	1844.231	1840.957
20	1798.398	1776.027	1755.293	1744.926	1746.563
25	1691.454	1672.903	1664.173	1636.891	1626.524
30	1566.505	1547.408	1527.765	1513.033	1504.849
35	1436.645	1419.185	1395.723	1375.534	1364.076
40	1287.688	1273.501	1248.948	1233.125	1223.849
45	1143.641	1127.272	1108.175	1099.445	1099.991
50	991.410	986.500	965.766	969.585	974.496
55	834.815	834.815	839.725	852.820	858.277
60	689.131	692.405	714.776	737.147	750.787
65	537.446	557.089	594.737	633.477	651.483
70	391.763	424.500	478.518	530.353	551.632
75	265.722	299.551	367.755	434.867	458.875
80	139.136	196.973	267.905	338.836	361.207
85	41.468	93.303	133.679	151.685	161.507
90	0.000	1.637	2.183	3.819	2.183

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ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixt
0-20	707.33	N.A.	13.90
0-30	1469.67	N.A.	29.00
0-40	2343.15	N.A.	46.20
0-60	3959.96	N.A.	78.00
0-80	4938.56	N.A.	97.30
0-90	5076.23	N.A.	100.00
10-90	4890.72	N.A.	96.30
20-40	1635.83	N.A.	32.20
20-50	2496.49	N.A.	49.20
40-70	2206.75	N.A.	43.50
60-80	978.59	N.A.	19.30
70-80	388.65	N.A.	7.70
80-90	137.67	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	5076.23	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	185.51
10-20	521.82
20-30	762.34
30-40	873.49
40-50	860.66
50-60	756.14
60-70	589.95
70-80	388.65
80-90	137.67
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

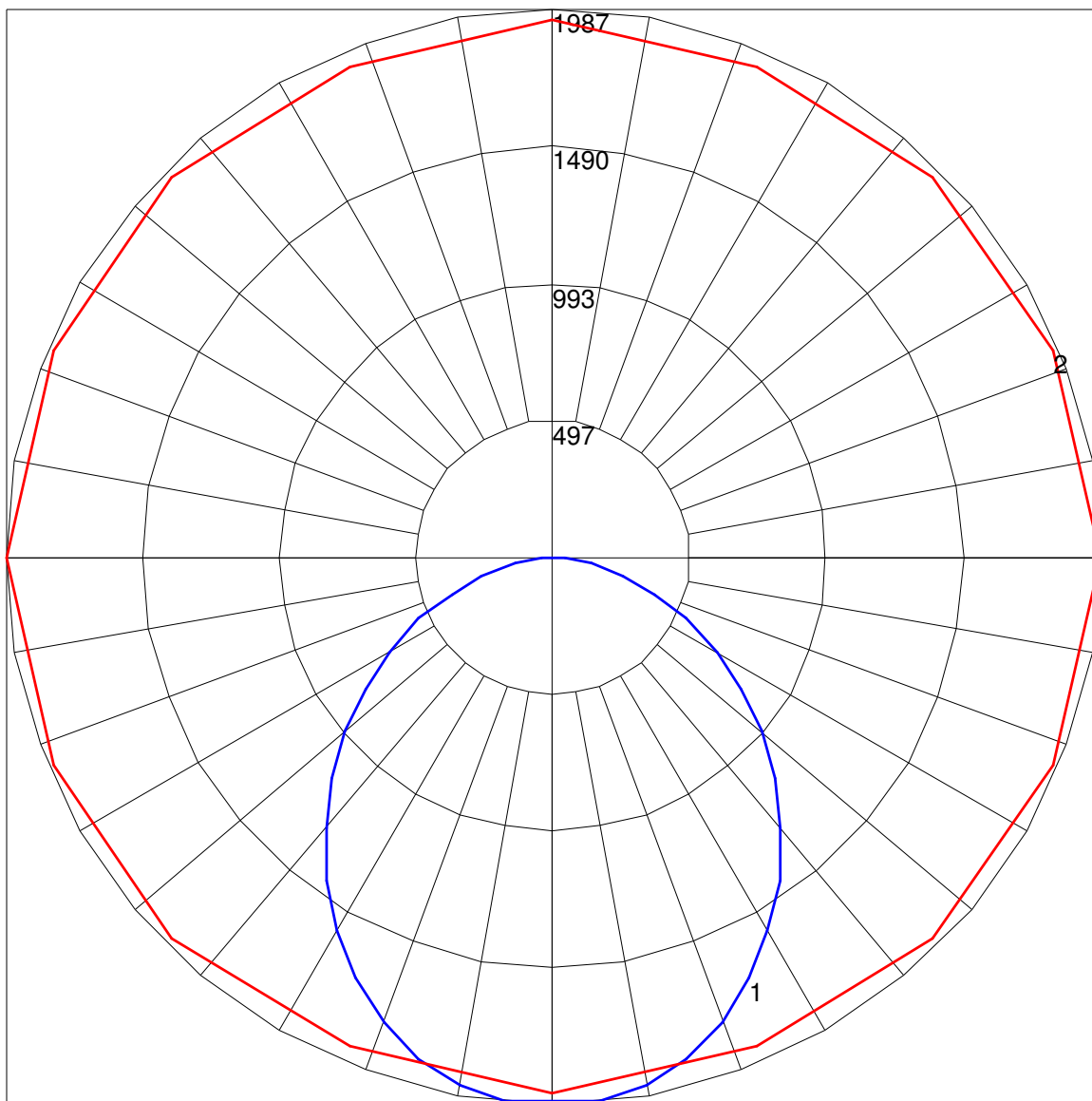
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COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD

Effective Floor Cavity Reflectance 0.20

RC RW	80				70				50			30			10			0
	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10	0
0	69	69	69	69	68	68	68	68	65	65	65	62	62	62	59	59	59	58
1	63	60	58	55	61	59	57	54	56	54	53	54	53	51	52	51	50	48
2	57	52	48	45	56	51	48	45	49	46	43	47	45	42	46	43	42	40
3	52	46	41	38	51	45	41	37	44	40	37	42	39	36	40	38	35	34
4	48	41	36	32	47	40	35	32	39	35	31	37	34	31	36	33	30	29
5	44	37	31	28	43	36	31	27	35	30	27	34	30	27	33	29	27	25
6	41	33	28	24	40	33	28	24	32	27	24	31	27	24	30	26	23	22
7	38	30	25	21	37	30	25	21	29	24	21	28	24	21	27	24	21	20
8	35	28	23	19	34	27	22	19	26	22	19	26	22	19	25	21	19	18
9	33	25	21	17	32	25	20	17	24	20	17	24	20	17	23	20	17	16
10	31	23	19	16	30	23	19	16	23	18	16	22	18	16	21	18	16	15

POLAR GRAPH



Maximum Candela = 1986.64 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.)