



IES INDOOR REPORT

PHOTOMETRIC FILENAME : PTS-22-L48-8FS-SA.IES

DESCRIPTION INFORMATION (From Photometric File)

IESNA:LM-63-2002
 [TEST]GEN from BALLABS TEST NO. 20789.0
 [TESTLAB] BUILDING ACOUSTICS & LIGHTING LABORATORIES, INC
 [ISSUE DATE] 30-APR-2019
 [MANUFAC] WILLIAMS INDOOR
 [OTHER] H.E. WILLIAMS, INC - CARTHAGE, MO
 [LUMINAIRE] 1-84 LED 22"ARRAY 2x2 SURFACE LUMINAIRE
 [MORE] WHITE REFLECTOR w/FROST SQUARED RIBBED LENS
 [MORE] ADVANCE #C1042C092V045CNN1
 [LUMCAT] PTS-22-L48-8FS-SA-DIM-UNV

CHARACTERISTICS

Lumens Per Lamp	N.A. (absolute)
Total Lamp Lumens	N.A. (absolute)
Luminaire Lumens	4968
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	117
Total Luminaire Watts	42.6
Ballast Factor	1.00
CIE Type	Direct
Spacing Criterion (0-180)	1.18
Spacing Criterion (90-270)	1.14
Spacing Criterion (Diagonal)	1.28
Basic Luminous Shape	Rectangular
Luminous Length (0-180)	1.92 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	4441	4376	4314
55	3991	4027	4139
65	3493	3810	4279
75	2723	3836	4959
85	1417	3571	4810

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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	1969.052	1969.052	1969.052	1969.052	1969.052
5	1969.052	1956.348	1948.182	1949.089	1947.274
10	1927.312	1917.330	1909.164	1905.534	1902.812
15	1859.257	1851.998	1842.924	1835.665	1833.850
20	1782.128	1770.332	1748.554	1744.017	1739.480
25	1669.611	1665.074	1639.667	1626.963	1618.797
30	1541.668	1534.409	1517.168	1497.205	1483.594
35	1397.392	1399.206	1377.429	1357.466	1349.300
40	1249.486	1254.023	1232.245	1218.634	1213.190
45	1107.932	1105.210	1091.599	1087.062	1076.173
50	957.304	960.026	947.323	958.211	949.137
55	807.584	815.750	814.843	837.528	837.528
60	660.585	666.030	689.622	720.473	734.084
65	520.846	534.457	568.031	612.493	637.900
70	379.292	402.884	459.143	516.309	547.161
75	248.627	290.367	350.255	416.495	452.791
80	131.573	178.757	245.905	311.237	344.811
85	43.555	72.592	109.795	134.295	147.906
90	0.000	0.000	0.000	0.000	0.000

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ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixt
0-20	704.65	N.A.	14.20
0-30	1461.06	N.A.	29.40
0-40	2322.57	N.A.	46.70
0-60	3904.47	N.A.	78.60
0-80	4845.95	N.A.	97.50
0-90	4968.37	N.A.	100.00
10-90	4783.23	N.A.	96.30
20-40	1617.91	N.A.	32.60
20-50	2462.94	N.A.	49.60
40-70	2151.71	N.A.	43.30
60-80	941.48	N.A.	18.90
70-80	371.67	N.A.	7.50
80-90	122.42	N.A.	2.50
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	4968.37	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	185.14
10-20	519.51
20-30	756.40
30-40	861.51
40-50	845.02
50-60	736.89
60-70	569.81
70-80	371.67
80-90	122.42
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

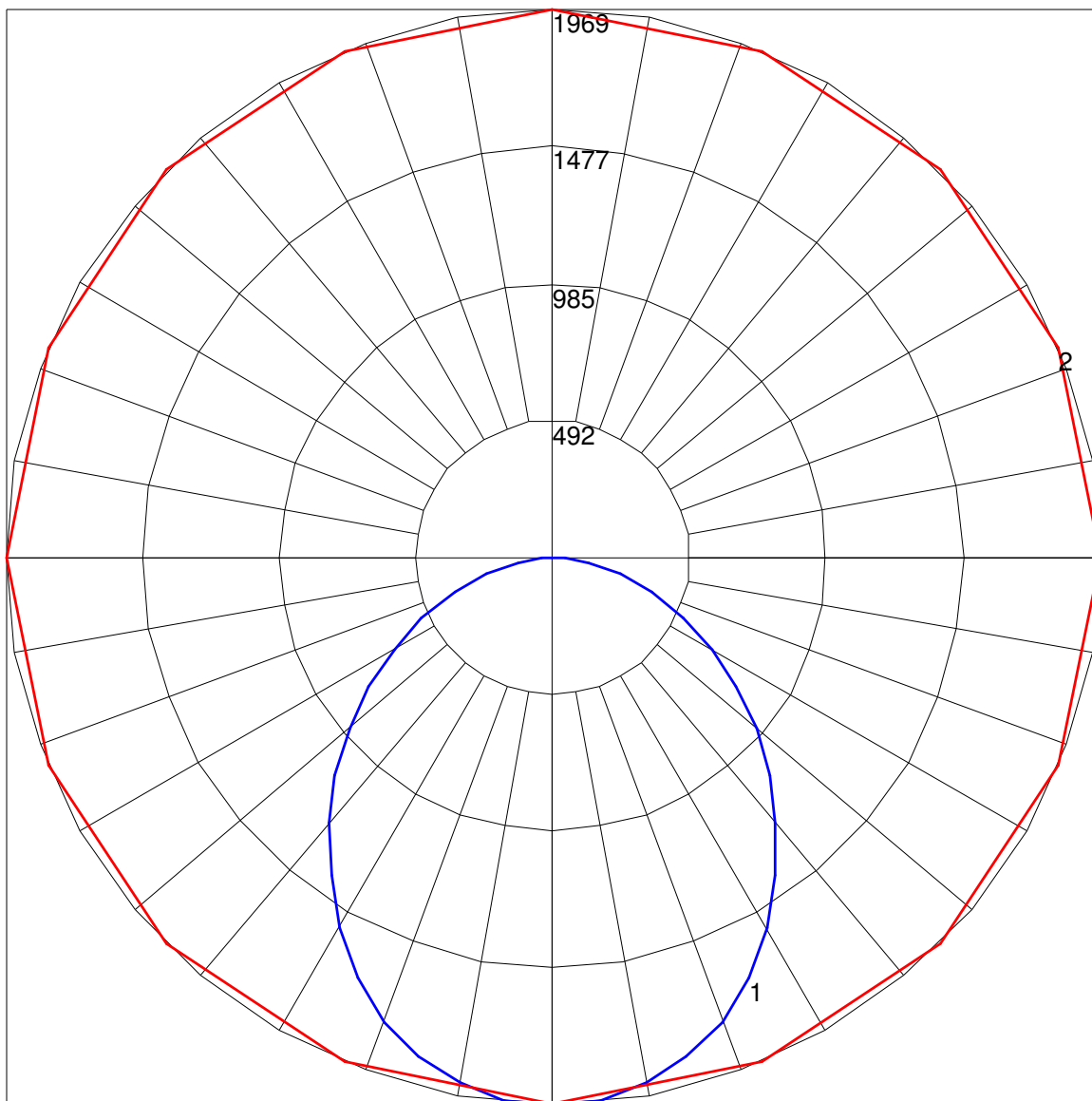
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COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD

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	99	95	106	101	97	94	97	94	91	93	91	88	90	87	85	83
2	99	91	84	78	96	89	82	77	85	80	75	82	77	73	79	75	72	70
3	90	80	72	65	88	78	71	64	75	69	63	72	67	62	70	65	61	59
4	83	71	62	55	80	69	61	55	67	60	54	65	58	53	62	57	53	51
5	76	63	55	48	74	62	54	48	60	53	47	58	52	47	56	51	46	44
6	71	57	48	42	69	56	48	42	55	47	41	53	46	41	51	45	41	39
7	66	52	43	37	64	51	43	37	50	42	37	48	42	37	47	41	36	34
8	61	48	39	33	60	47	39	33	46	38	33	44	38	33	43	37	33	31
9	57	44	36	30	56	43	35	30	42	35	30	41	34	30	40	34	30	28
10	54	41	33	27	52	40	32	27	39	32	27	38	32	27	37	31	27	25

POLAR GRAPH



Maximum Candela = 1969.052 Located At Horizontal Angle = 0, Vertical Angle = 0
1 - Vertical Plane Through Horizontal Angles (0 - 180) (Through Max. Cd.)
2 - Horizontal Cone Through Vertical Angle (0) (Through Max. Cd.)