



IES INDOOR REPORT

PHOTOMETRIC FILENAME : PTR-22-L38-835-SA.IES

DESCRIPTION INFORMATION (From Photometric File)

IESNA:LM-63-2002
 [TEST]GEN FROM BALLABS TEST NO. 19272.2
 [TESTLAB] BUILDING ACOUSTICS & LIGHTING LABORATORIES, INC
 [ISSUE DATE] 01-APR-2015
 [MANUFAC] WILLIAMS INDOOR
 [OTHER] H.E. WILLIAMS, INC - CARTHAGE, MO
 [LUMINAIRE] 22"ARRAYS 2x2' RECESSED LUMINAIRE
 [MORE] WHITE REFLECTOR w/ ACRYLIC RIBBED CENTER DIFFUSER
 [MORE] EVERLINE LED DRIVER
 [LUMCAT] PTR-22-L38-835-RA-xxx-xxx
 [LAMPCAT] M700C835D72N2A
 [_SEARCH_SOURCETYPE] LED
 [_SEARCH_APPLICATION] Indoor, Classroom, Commercial, Industrial, Office, Retrofit
 [_SEARCH_MOUNTING] Recessed

CHARACTERISTICS

Lumens Per Lamp	N.A. (absolute)
Total Lamp Lumens	N.A. (absolute)
Luminaire Lumens	3918
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	120
Total Luminaire Watts	32.6
Ballast Factor	1.00
CIE Type	Direct
Spacing Criterion (0-180)	1.16
Spacing Criterion (90-270)	1.22
Spacing Criterion (Diagonal)	1.32
Basic Luminous Shape	Rectangular
Luminous Length (0-180)	1.92 ft
Luminous Width (90-270)	1.92 ft
Luminous Height	0.00 ft

LUMINANCE DATA (cd/sq.m)

Angle In Degrees	Average 0-Deg	Average 45-Deg	Average 90-Deg
45	3501	3702	3910
55	3097	3386	3676
65	2788	3290	3769
75	2133	3300	4155
85	1379	3629	3702

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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	1458.237	1458.237	1458.237	1458.237	1458.237
5	1450.671	1449.590	1450.671	1450.671	1451.211
10	1423.106	1424.187	1425.808	1427.970	1429.051
15	1359.869	1361.490	1365.273	1371.759	1374.462
20	1322.575	1326.358	1335.006	1344.735	1349.059
25	1220.423	1225.287	1243.664	1250.149	1255.554
30	1118.270	1151.781	1187.453	1244.204	1186.372
35	1006.389	1015.578	1038.278	1060.979	1070.707
40	913.966	924.775	952.340	980.446	993.958
45	845.864	858.836	894.508	929.099	944.774
50	726.957	742.090	780.465	817.759	833.433
55	606.968	623.183	663.720	704.256	720.471
60	492.925	512.383	555.622	596.159	613.995
65	402.664	425.905	475.089	522.652	544.272
70	295.107	324.833	382.666	436.174	457.253
75	188.630	225.384	291.864	345.913	367.532
80	105.936	154.580	223.762	262.137	272.406
85	41.077	84.316	108.098	109.179	110.260
90	0.000	0.000	0.000	0.000	0.000

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ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixt
0-20	525.99	N.A.	13.40
0-30	1102.7	N.A.	28.10
0-40	1762.16	N.A.	45.00
0-60	3038.09	N.A.	77.50
0-80	3810.19	N.A.	97.20
0-90	3918.01	N.A.	100.00
10-90	3780.33	N.A.	96.50
20-40	1236.17	N.A.	31.60
20-50	1916.59	N.A.	48.90
40-70	1742.3	N.A.	44.50
60-80	772.11	N.A.	19.70
70-80	305.73	N.A.	7.80
80-90	107.81	N.A.	2.80
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	3918.01	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	137.67
10-20	388.32
20-30	576.70
30-40	659.47
40-50	680.42
50-60	595.51
60-70	466.37
70-80	305.73
80-90	107.81
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

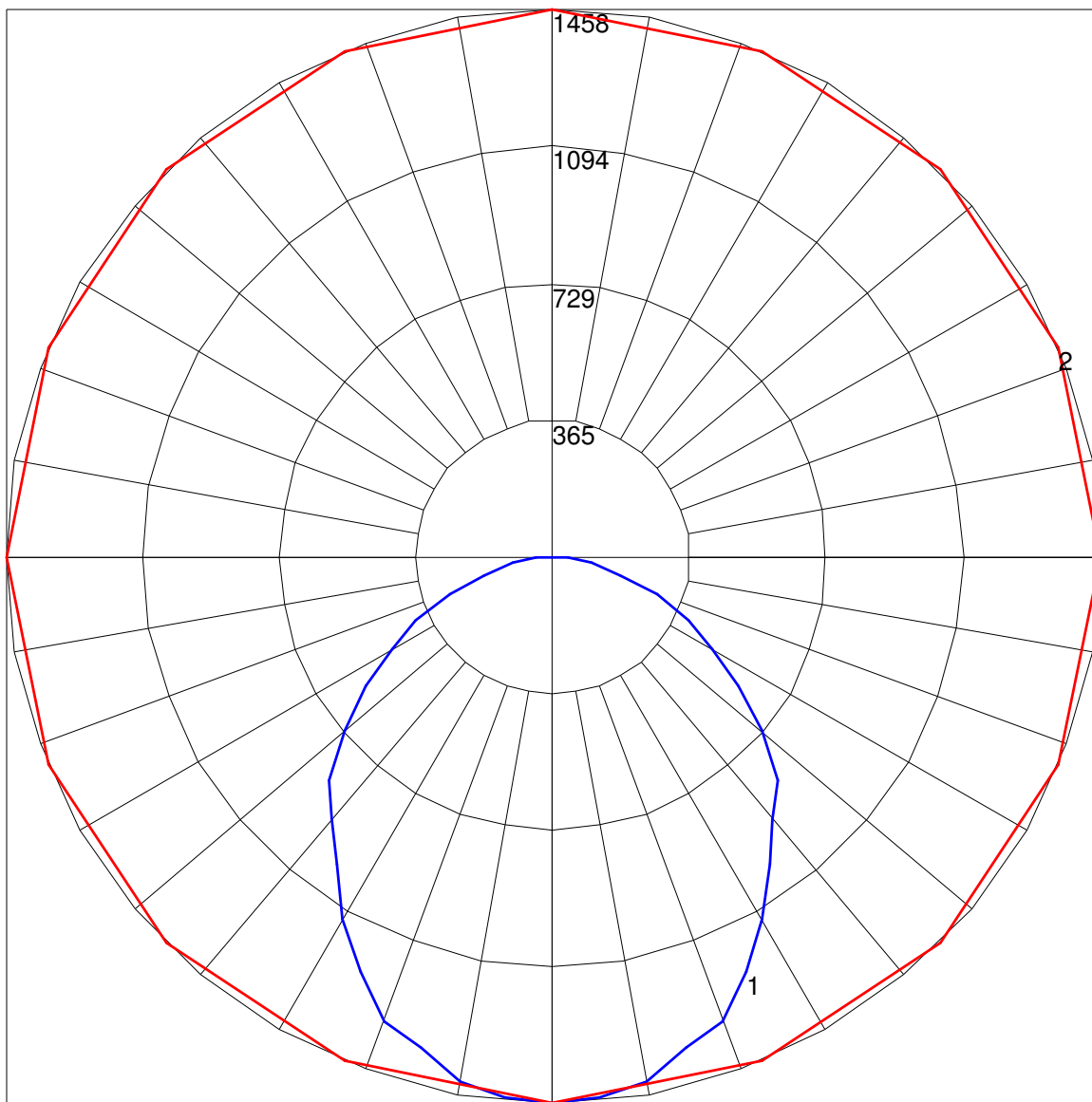
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COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD

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	96	96	96	96	94	94	94	94	90	90	90	86	86	86	82	82	82	81
1	88	84	80	77	85	82	78	75	78	75	73	75	73	71	72	70	69	67
2	80	73	67	62	77	71	66	62	68	64	60	66	62	59	63	60	57	56
3	72	64	57	52	70	63	56	51	60	55	50	58	53	49	56	52	49	47
4	66	57	49	44	65	56	49	44	53	48	43	52	47	42	50	45	42	40
5	61	51	43	38	59	50	43	38	48	42	37	46	41	37	45	40	36	35
6	56	46	38	33	55	45	38	33	43	37	33	42	37	32	41	36	32	30
7	52	41	34	29	51	41	34	29	40	33	29	38	33	29	37	32	29	27
8	49	38	31	26	48	37	31	26	36	30	26	35	30	26	34	29	26	24
9	46	35	28	24	45	34	28	24	33	28	23	33	27	23	32	27	23	22
10	43	32	26	22	42	32	26	21	31	25	21	30	25	21	29	25	21	20

POLAR GRAPH



Maximum Candela = 1458.237 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.)