



IES INDOOR REPORT

PHOTOMETRIC FILENAME : LT-22-L39-935-AF-DIM-UNV_TBX.IES

DESCRIPTION INFORMATION (From Photometric File)

IESNA:LM-63-2002
 [TEST]GEN FROM BALLABS TEST NO. 18665.0
 [TESTLAB] BUILDING ACOUSTICS & LIGHTING LABORATORIES, INC
 [ISSUE DATE] 19-JULY-2019
 [MANUFAC] WILLIAMS INDOOR
 [OTHER] H.E. WILLIAMS, INC - CARTHAGE, MO
 [LUMINAIRE] 1-72 LED 22"ARRAY 2x2'RECESSED LUMINAIRE
 [MORE] WHITE REFLECTOR w/CENTER FROSTED ACRYLIC LENS
 [LUMCAT] LT-22-L39-935-AF-DIM-UNV
 [LAMPCAT] HLM 90 CRI 3500K CCT

CHARACTERISTICS

Lumens Per Lamp	N.A. (absolute)
Total Lamp Lumens	N.A. (absolute)
Luminaire Lumens	3209
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	100
Total Luminaire Watts	32
Ballast Factor	1.00
CIE Type	Direct
Spacing Criterion (0-180)	1.22
Spacing Criterion (90-270)	1.30
Spacing Criterion (Diagonal)	1.36
Basic Luminous Shape	Rectangular
Luminous Length (0-180)	1.92 ft
Luminous Width (90-270)	1.90 ft
Luminous Height	0.00 ft

LUMINANCE DATA (cd/sq.m)

Angle In Degrees	Average 0-Deg	Average 45-Deg	Average 90-Deg
45	2677	3024	3303
55	2366	2905	3347
65	2076	2883	3577
75	1731	3049	4028
85	1162	2539	2478

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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	1108.416	1108.416	1108.416	1108.416	1108.416
5	1108.416	1104.812	1100.306	1102.108	1101.207
10	1087.690	1087.690	1087.690	1088.591	1090.393
15	1057.051	1057.952	1059.754	1066.963	1069.667
20	1017.400	1020.103	1027.313	1041.731	1041.731
25	965.133	967.837	979.552	1001.179	1002.080
30	899.349	899.349	924.581	951.616	957.023
35	819.147	825.455	863.303	898.448	908.361
40	732.636	746.153	794.816	839.873	852.489
45	639.818	662.346	722.723	775.891	789.409
50	549.702	579.440	644.323	705.602	721.822
55	458.686	492.930	563.220	635.312	648.829
60	373.978	409.123	487.523	565.022	579.440
65	296.479	328.019	411.826	486.622	510.953
70	222.584	256.828	337.031	405.518	437.960
75	151.393	185.637	266.741	323.513	352.350
80	88.313	118.952	185.637	226.189	231.596
85	34.244	45.058	74.796	72.092	72.993
90	0.000	0.000	0.000	0.000	0.000

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ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixt
0-20	404.76	N.A.	12.60
0-30	857.44	N.A.	26.70
0-40	1397.14	N.A.	43.50
0-60	2455.23	N.A.	76.50
0-80	3128.47	N.A.	97.50
0-90	3208.89	N.A.	100.00
10-90	3104.06	N.A.	96.70
20-40	992.38	N.A.	30.90
20-50	1547.23	N.A.	48.20
40-70	1462.33	N.A.	45.60
60-80	673.25	N.A.	21.00
70-80	269.00	N.A.	8.40
80-90	80.41	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	3208.89	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	104.83
10-20	299.94
20-30	452.68
30-40	539.70
40-50	554.85
50-60	503.24
60-70	404.24
70-80	269.00
80-90	80.41
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

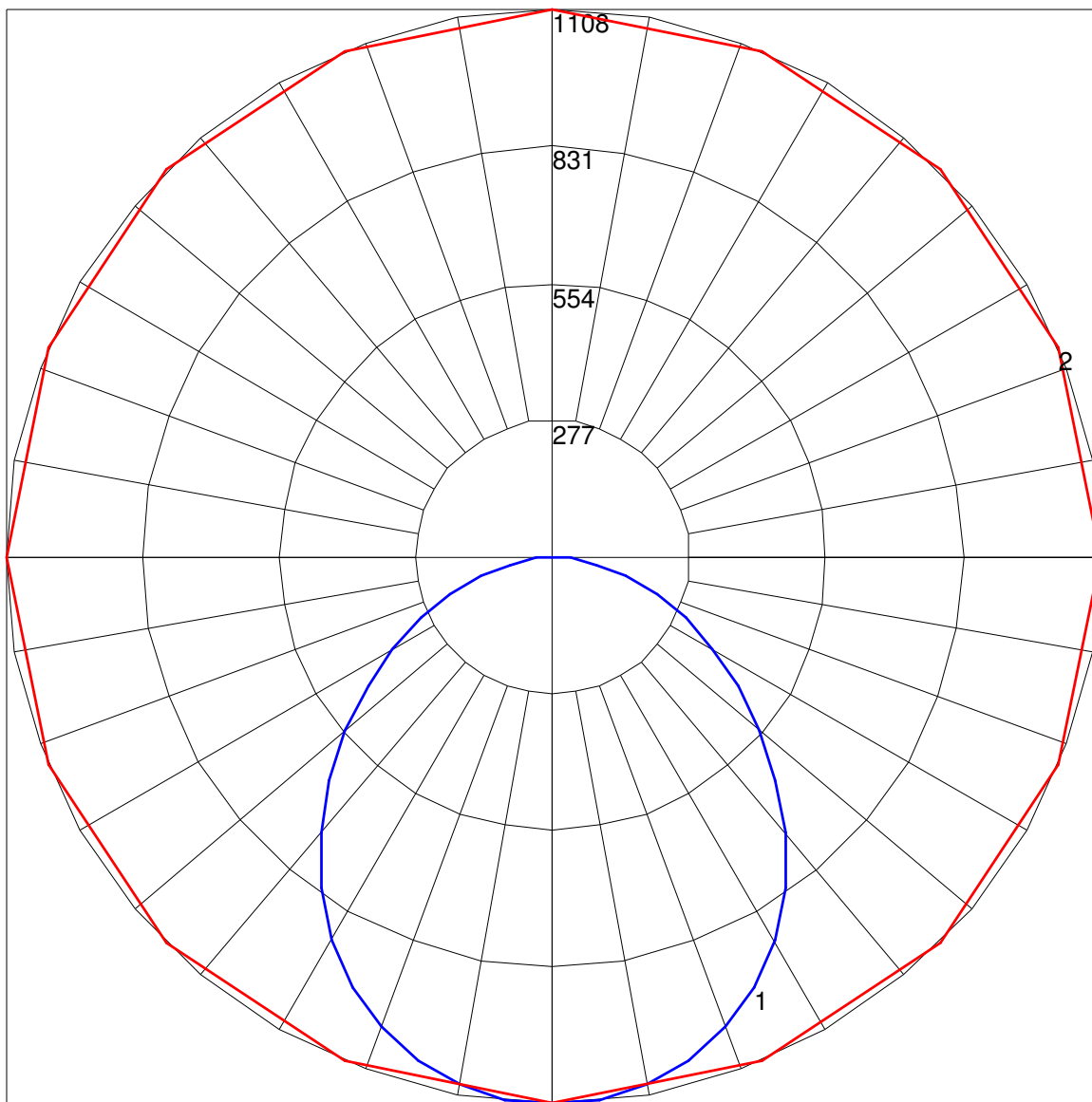
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COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD

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	108	103	99	95	105	101	97	93	97	93	90	93	90	87	89	87	85	83
2	98	90	82	76	95	88	81	76	84	79	74	81	76	72	78	74	70	68
3	89	78	70	63	87	77	69	63	74	67	62	71	65	60	68	64	59	57
4	82	69	60	53	79	68	60	53	65	58	52	63	57	52	61	55	51	49
5	75	62	53	46	73	61	52	46	59	51	45	57	50	45	55	49	44	42
6	69	56	47	40	67	55	46	40	53	45	40	51	44	39	50	44	39	37
7	64	50	42	35	62	50	41	35	48	40	35	47	40	35	45	39	34	32
8	60	46	37	32	58	45	37	31	44	37	31	43	36	31	42	35	31	29
9	56	42	34	28	54	42	34	28	41	33	28	39	33	28	38	32	28	26
10	52	39	31	26	51	39	31	26	37	30	26	37	30	25	36	30	25	24

POLAR GRAPH



Maximum Candela = 1108.416 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.)