



IES INDOOR REPORT

PHOTOMETRIC FILENAME : LT-22-L27-935-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-L27-935-AF-DIM-UNV
 [LAMPCAT] HLM 90 CRI 3500K CCT

CHARACTERISTICS

Lumens Per Lamp	N.A. (absolute)
Total Lamp Lumens	N.A. (absolute)
Luminaire Lumens	2202
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	105
Total Luminaire Watts	21
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	1837	2075	2267
55	1624	1994	2297
65	1424	1978	2455
75	1188	2092	2764
85	798	1742	1700

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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	760.590	760.590	760.590	760.590	760.590
5	760.590	758.116	755.024	756.261	755.643
10	746.367	746.367	746.367	746.986	748.222
15	725.343	725.961	727.198	732.145	734.000
20	698.135	699.990	704.937	714.831	714.831
25	662.270	664.125	672.163	687.004	687.623
30	617.129	617.129	634.443	652.994	656.704
35	562.094	566.423	592.394	616.510	623.313
40	502.731	512.007	545.398	576.317	584.974
45	439.040	454.499	495.929	532.413	541.688
50	377.203	397.609	442.131	484.180	495.311
55	314.748	338.246	386.478	435.948	445.223
60	256.622	280.738	334.536	387.715	397.609
65	203.442	225.085	282.593	333.917	350.613
70	152.736	176.234	231.269	278.265	300.526
75	103.885	127.383	183.036	221.993	241.781
80	60.600	81.624	127.383	155.210	158.920
85	23.498	30.918	51.324	49.469	50.088
90	0.000	0.000	0.000	0.000	0.000

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ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixt
0-20	277.75	N.A.	12.60
0-30	588.37	N.A.	26.70
0-40	958.71	N.A.	43.50
0-60	1684.77	N.A.	76.50
0-80	2146.74	N.A.	97.50
0-90	2201.92	N.A.	100.00
10-90	2129.99	N.A.	96.70
20-40	680.97	N.A.	30.90
20-50	1061.7	N.A.	48.20
40-70	1003.44	N.A.	45.60
60-80	461.98	N.A.	21.00
70-80	184.59	N.A.	8.40
80-90	55.18	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	2201.92	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	71.93
10-20	205.81
20-30	310.63
30-40	370.34
40-50	380.73
50-60	345.32
60-70	277.39
70-80	184.59
80-90	55.18
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

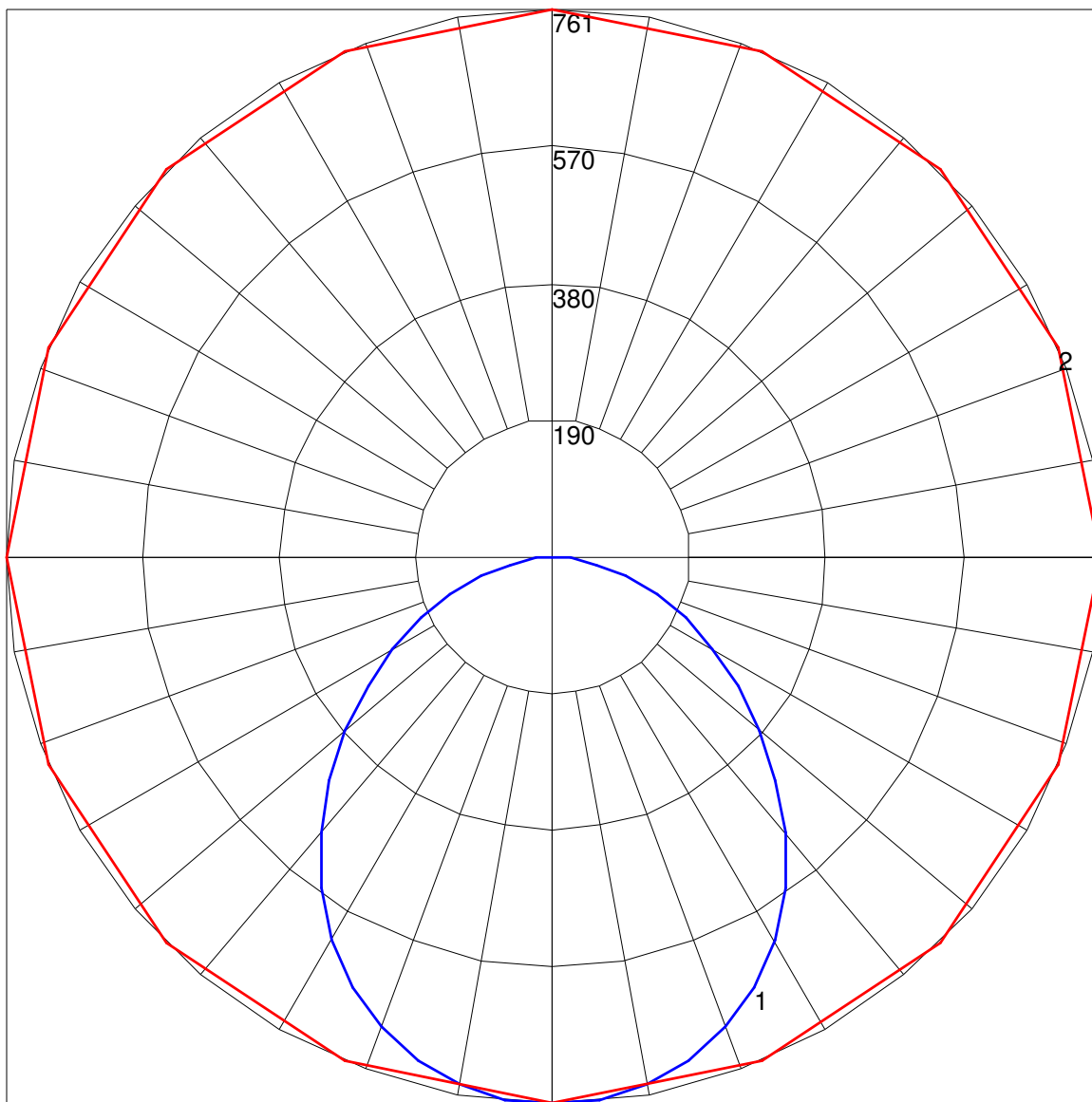
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COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD

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 = 760.59 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.)