



IES INDOOR REPORT

PHOTOMETRIC FILENAME : LT-24-L40-935-AF-DIM-UNV_TBX.IES

DESCRIPTION INFORMATION (From Photometric File)

IESNA:LM-63-2002
 [TEST]JEN FROM BALLABS TEST NO. 20802.0
 [TESTLAB] BUILDING ACOUSTICS & LIGHTING LABORATORIES, INC
 [ISSUEDATE] 19-JULY-2019
 [MANUFAC] WILLIAMS INDOOR
 [OTHER] H.E. WILLIAMS, INC - CARTHAGE, MO
 [LUMINAIRE] 2-56 LED 22"ARRAYS 2x4' LUMINAIRE
 [LUMINAIRE] WHITE REFLECTOR w/FROSTED CENTER LENS
 [LUMCAT] LT-24-L40-935-AF-DIM-UNV
 [LAMPCAT] HLM 90 CRI 3500K CCT

CHARACTERISTICS

Lumens Per Lamp	N.A. (absolute)
Total Lamp Lumens	N.A. (absolute)
Luminaire Lumens	3314
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	104
Total Luminaire Watts	32
Ballast Factor	1.00
CIE Type	Direct
Spacing Criterion (0-180)	1.22
Spacing Criterion (90-270)	1.28
Spacing Criterion (Diagonal)	1.36
Basic Luminous Shape	Rectangular
Luminous Length (0-180)	3.93 ft
Luminous Width (90-270)	1.91 ft
Luminous Height	0.00 ft

LUMINANCE DATA (cd/sq.m)

Angle In Degrees	Average 0-Deg	Average 45-Deg	Average 90-Deg
45	1369	1522	1637
55	1246	1476	1651
65	1064	1467	1728
75	784	1541	1933
85	300	1237	1137

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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	1151.208	1151.208	1151.208	1151.208	1151.208
5	1162.245	1148.449	1141.274	1138.515	1138.515
10	1140.722	1126.374	1122.510	1123.062	1121.407
15	1106.506	1096.572	1094.917	1098.780	1100.987
20	1061.804	1052.974	1056.838	1067.323	1069.531
25	1003.306	995.580	1009.376	1024.277	1027.588
30	935.977	934.322	953.085	972.953	980.679
35	857.059	863.682	891.276	916.662	926.044
40	773.726	785.868	828.362	857.611	868.649
45	673.837	694.809	748.892	797.457	805.735
50	590.505	616.443	669.422	716.884	730.680
55	497.238	523.176	589.401	640.173	658.937
60	405.627	434.324	504.964	566.222	583.882
65	312.912	352.647	431.565	491.167	508.275
70	226.268	270.970	352.647	416.113	429.909
75	141.280	195.915	277.592	334.435	348.232
80	67.880	126.931	201.434	227.924	220.197
85	18.212	62.914	75.055	66.777	68.984
90	0.000	0.000	0.000	0.000	0.000

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ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixt
0-20	418.56	N.A.	12.60
0-30	884.64	N.A.	26.70
0-40	1442.37	N.A.	43.50
0-60	2539.67	N.A.	76.60
0-80	3232.45	N.A.	97.50
0-90	3313.9	N.A.	100.00
10-90	3205.23	N.A.	96.70
20-40	1023.81	N.A.	30.90
20-50	1599.36	N.A.	48.30
40-70	1514.65	N.A.	45.70
60-80	692.78	N.A.	20.90
70-80	275.44	N.A.	8.30
80-90	81.44	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	3313.9	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	108.67
10-20	309.89
20-30	466.08
30-40	557.73
40-50	575.55
50-60	521.76
60-70	417.34
70-80	275.44
80-90	81.44
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

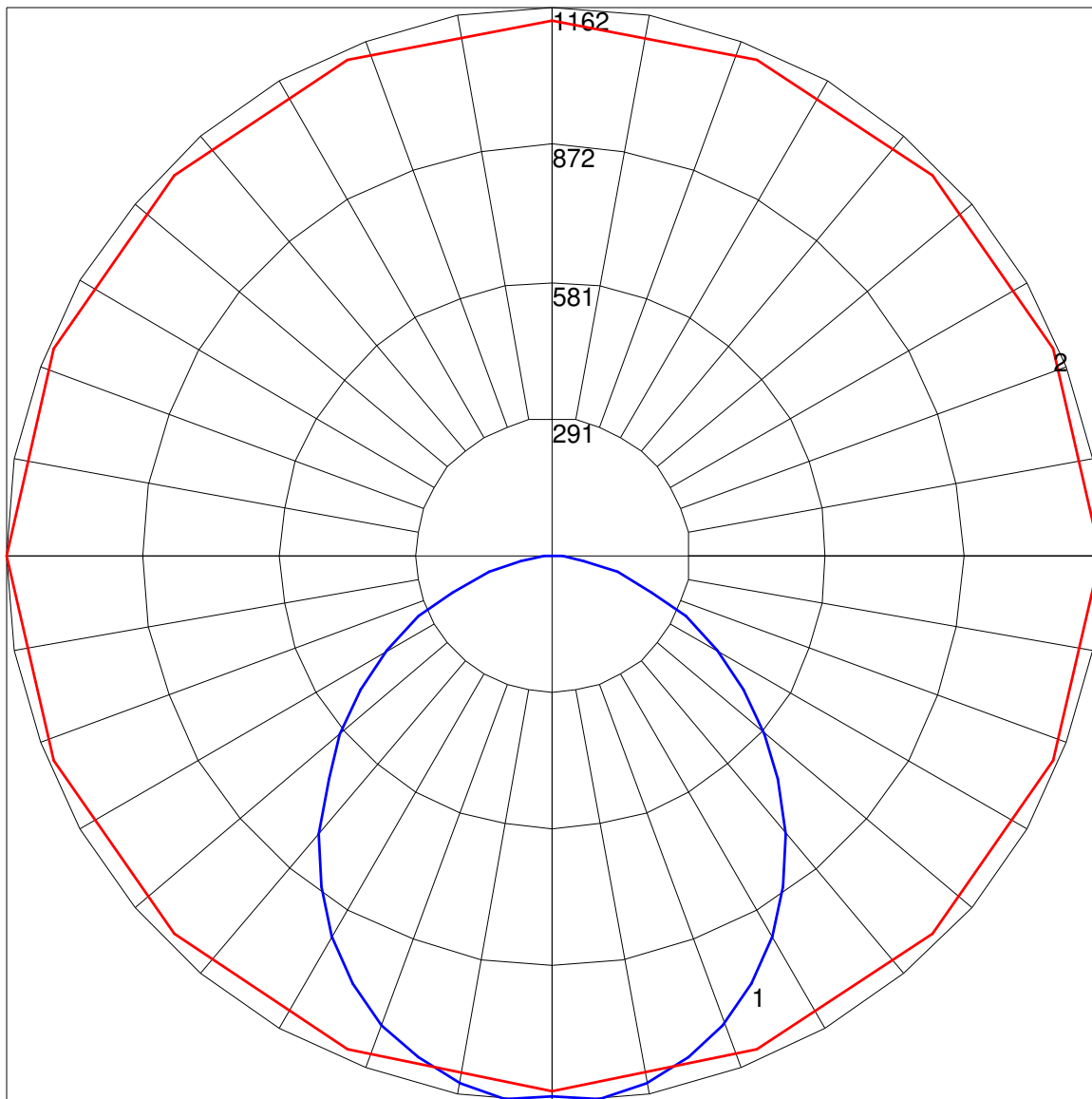
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COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD

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	77	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	61	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	51	42	35	62	50	41	35	48	41	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	38	30	26	37	30	25	36	30	25	24

POLAR GRAPH



Maximum Candela = 1162.245 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.)