



IES INDOOR REPORT

PHOTOMETRIC FILENAME : LPT-24-L90-835-AF12095-XXX-XXX.IES

DESCRIPTION INFORMATION (From Photometric File)

IESNA:LM-63-2002
[TEST]GEN FROM BALLABS TEST NO. 18562.0
[TESTLAB] BUILDING ACOUSTICS & LIGHTING LABORATORIES, INC
[ISSUE DATE] 18-DEC-2014
[MANUFAC] WILLIAMS INDOOR
[OTHER] H.E. WILLIAMS, INC. - CARTHAGE, MO.
[LUMINAIRE] 4-72 LED 22"ARRAYS 2x4'RECESSED GRID LUMINAIRE
[MORE] WHITE INTERNAL REFLECTOR w/P12 ACRYLIC LENS
[MORE] 0-10V LED DRIVER
[LUMCAT] LPT-24-L90-835-AF12095-xxx-xxx
[LAMPCAT] HLM 80 CRI 3500K CCT
[_SEARCH_SOURCE TYPE]LED
[_SEARCH_APPLICATION]INDOOR,ARCHITECTURAL,DIRECT
[_SEARCH_MOUNTING]RECESSED

CHARACTERISTICS

Lumens Per Lamp	N.A. (absolute)
Total Lamp Lumens	N.A. (absolute)
Luminaire Lumens	9031
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	133
Total Luminaire Watts	68
Ballast Factor	1.00
CIE Type	Direct
Spacing Criterion (0-180)	1.16
Spacing Criterion (90-270)	1.16
Spacing Criterion (Diagonal)	1.24
Basic Luminous Shape	Rectangular
Luminous Length (0-180)	3.77 ft
Luminous Width (90-270)	1.77 ft
Luminous Height	0.00 ft

LUMINANCE DATA (cd/sq.m)

Angle In Degrees	Average 0-Deg	Average 45-Deg	Average 90-Deg
45	4906	4837	4762
55	3883	3676	3524
65	3014	2740	2748
75	2487	2364	2674
85	2827	2865	3442

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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	4131.477	4131.477	4131.477	4131.477	4131.477
5	4070.324	4070.324	4066.178	4066.178	4066.178
10	3991.550	3991.550	3987.404	3987.404	3991.550
15	3851.623	3851.623	3851.623	3855.769	3855.769
20	3709.623	3709.623	3709.623	3713.769	3717.915
25	3477.447	3472.265	3477.447	3485.739	3489.885
30	3173.754	3173.754	3173.754	3182.046	3188.265
35	2891.827	2891.827	2891.827	2891.827	2900.119
40	2538.381	2532.162	2525.943	2515.578	2521.797
45	2145.549	2132.074	2115.490	2091.651	2082.322
50	1751.680	1747.534	1695.709	1654.249	1641.811
55	1377.505	1357.811	1303.913	1263.490	1250.015
60	1056.190	1028.205	981.563	951.504	951.504
65	787.738	757.679	716.219	712.073	718.292
70	574.219	555.562	518.248	550.380	563.854
75	398.015	395.942	378.321	413.562	428.073
80	281.927	277.781	281.927	307.840	324.424
85	152.365	146.146	154.438	180.350	185.533
90	0.000	0.000	0.000	0.000	0.000

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ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixt
0-20	1474.92	N.A.	16.30
0-30	3071.68	N.A.	34.00
0-40	4869.69	N.A.	53.90
0-60	7684.9	N.A.	85.10
0-80	8862.71	N.A.	98.10
0-90	9030.87	N.A.	100.00
10-90	8644.62	N.A.	95.70
20-40	3394.77	N.A.	37.60
20-50	5024.00	N.A.	55.60
40-70	3559.69	N.A.	39.40
60-80	1177.81	N.A.	13.00
70-80	433.33	N.A.	4.80
80-90	168.16	N.A.	1.90
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	9030.87	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	386.25
10-20	1088.67
20-30	1596.76
30-40	1798.01
40-50	1629.23
50-60	1185.98
60-70	744.48
70-80	433.33
80-90	168.16
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

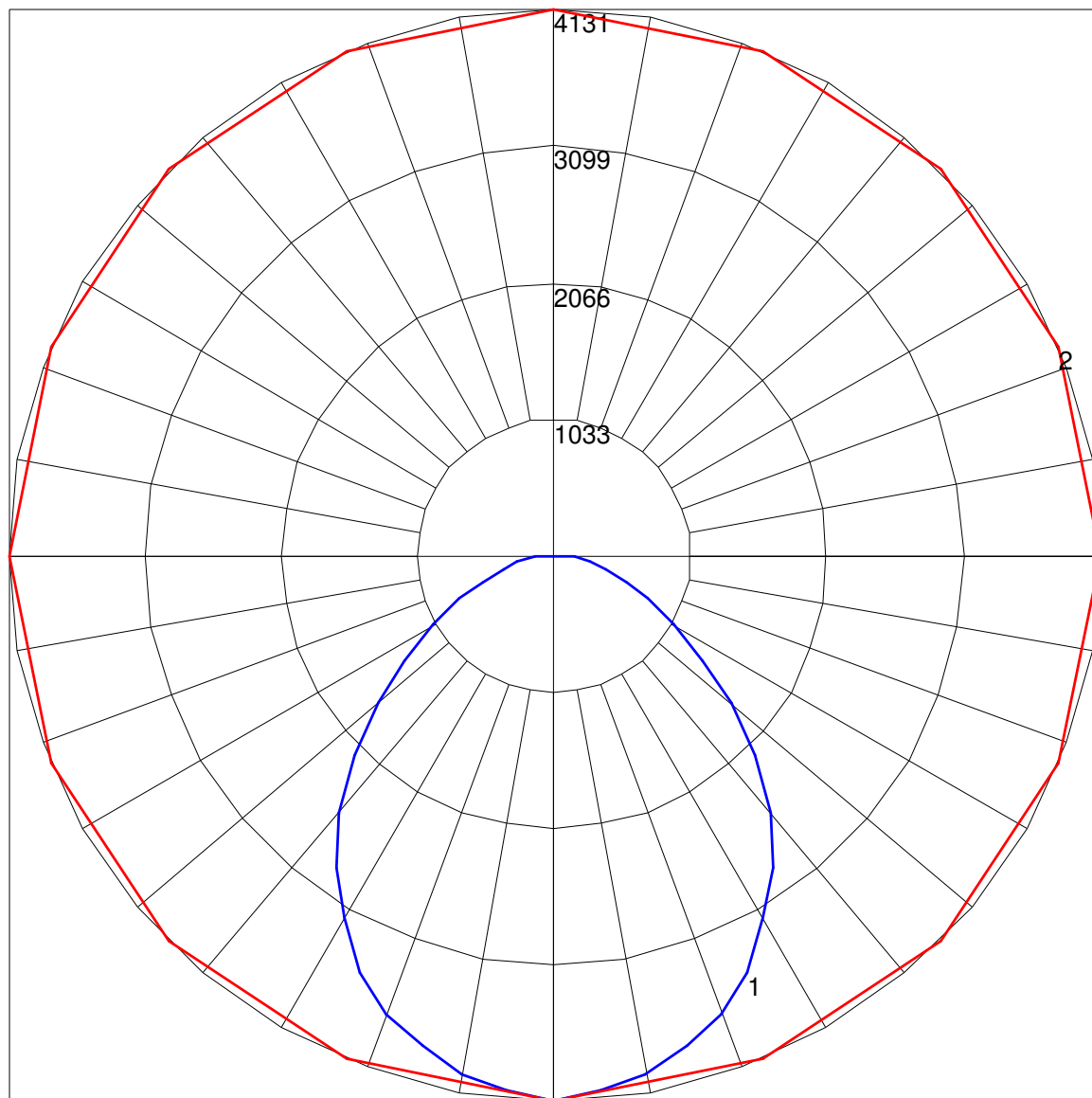
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COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD

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	110	105	101	98	107	103	100	96	99	96	93	95	93	90	91	90	88	86
2	101	93	87	82	98	91	86	81	88	83	79	85	81	77	82	78	75	73
3	93	83	75	69	90	81	74	69	79	73	68	76	71	67	73	69	65	63
4	85	74	66	60	83	73	65	60	71	64	59	68	63	58	66	61	57	55
5	79	67	59	53	77	66	58	52	64	57	52	62	56	51	60	55	51	49
6	73	61	52	46	72	60	52	46	58	51	46	57	50	45	55	49	45	43
7	68	56	47	41	67	55	47	41	53	46	41	52	46	41	51	45	40	39
8	64	51	43	37	62	50	43	37	49	42	37	48	41	37	47	41	37	35
9	60	47	39	34	58	46	39	34	45	38	34	44	38	33	43	38	33	32
10	56	44	36	31	55	43	36	31	42	35	31	41	35	31	40	35	30	29

POLAR GRAPH



Maximum Candela = 4131.477 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.)