



IES INDOOR REPORT
PHOTOMETRIC FILENAME : LP-24-L50-835-DIM-UNV.IES

DESCRIPTION INFORMATION (From Photometric File)

IESNA:LM-63-2002
[TEST]GEN FROM BALLABS TEST NO. 20528
[TESTLAB] BUILDING ACOUSTICS & LIGHTING LABORATORIES, INC
[ISSUE DATE] 29-JUN-2018
[MANUFAC] WILLIAMS INDOOR
[OTHER] H.E. WILLIAMS, INC - CARTHAGE, MO
[LUMINAIRE] 2-96 LED ARRAYS 2x4'ULTRA THIN SEAMLESS FLAT PANEL LIGHT
[MORE] .39" ALUMINUM FRAME w/PS 1mm DIFFUSE LENS PMMA 2mm LIGHT
[MORE] GUIDE PANEL, LED DRIVER #MG-PA50D01
[LUMCAT] LP-24-L50-835-DIM-UNV
[LAMPCAT] 4014

CHARACTERISTICS

Lumens Per Lamp	N.A. (absolute)
Total Lamp Lumens	N.A. (absolute)
Luminaire Lumens	4906
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	102
Total Luminaire Watts	48.1
Ballast Factor	1.00
CIE Type	Direct
Spacing Criterion (0-180)	1.24
Spacing Criterion (90-270)	1.26
Spacing Criterion (Diagonal)	1.40
Basic Luminous Shape	Rectangular
Luminous Length (0-180)	3.80 ft
Luminous Width (90-270)	1.80 ft
Luminous Height	0.00 ft

LUMINANCE DATA (cd/sq.m)

Angle In Degrees	Average 0-Deg	Average 45-Deg	Average 90-Deg
45	2560	2597	2635
55	2407	2438	2472
65	2283	2299	2322
75	1909	1898	1898
85	1579	1532	1500

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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	1731.787	1731.787	1731.787	1731.787	1731.787
5	1726.526	1723.896	1723.896	1723.896	1723.896
10	1706.359	1705.482	1706.359	1708.989	1708.989
15	1644.979	1644.979	1648.486	1651.994	1652.871
20	1596.752	1596.752	1602.013	1606.397	1608.151
25	1530.111	1531.865	1538.880	1545.894	1547.648
30	1433.657	1436.288	1443.302	1453.825	1458.209
35	1324.050	1326.681	1338.080	1350.356	1354.740
40	1235.488	1240.749	1252.148	1265.301	1268.808
45	1153.064	1156.571	1169.724	1181.123	1187.261
50	1018.028	1021.535	1034.688	1043.457	1049.595
55	879.485	880.362	890.884	898.776	903.160
60	726.912	728.666	735.681	742.696	745.326
65	614.675	614.675	619.059	623.443	625.197
70	464.733	465.610	467.363	469.117	469.994
75	314.791	313.037	313.037	312.160	313.037
80	189.401	189.401	185.893	168.356	168.356
85	87.685	86.809	85.055	85.055	83.301
90	7.015	7.015	5.261	5.261	5.261

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ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixt
0-20	631.01	N.A.	12.90
0-30	1338.01	N.A.	27.30
0-40	2180.22	N.A.	44.40
0-60	3867.93	N.A.	78.80
0-80	4808.57	N.A.	98.00
0-90	4905.97	N.A.	100.00
10-90	4741.9	N.A.	96.70
20-40	1549.21	N.A.	31.60
20-50	2442.76	N.A.	49.80
40-70	2292.27	N.A.	46.70
60-80	940.64	N.A.	19.20
70-80	336.08	N.A.	6.90
80-90	97.40	N.A.	2.00
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	4905.97	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	164.07
10-20	466.95
20-30	707.00
30-40	842.21
40-50	893.55
50-60	794.15
60-70	604.56
70-80	336.08
80-90	97.40
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

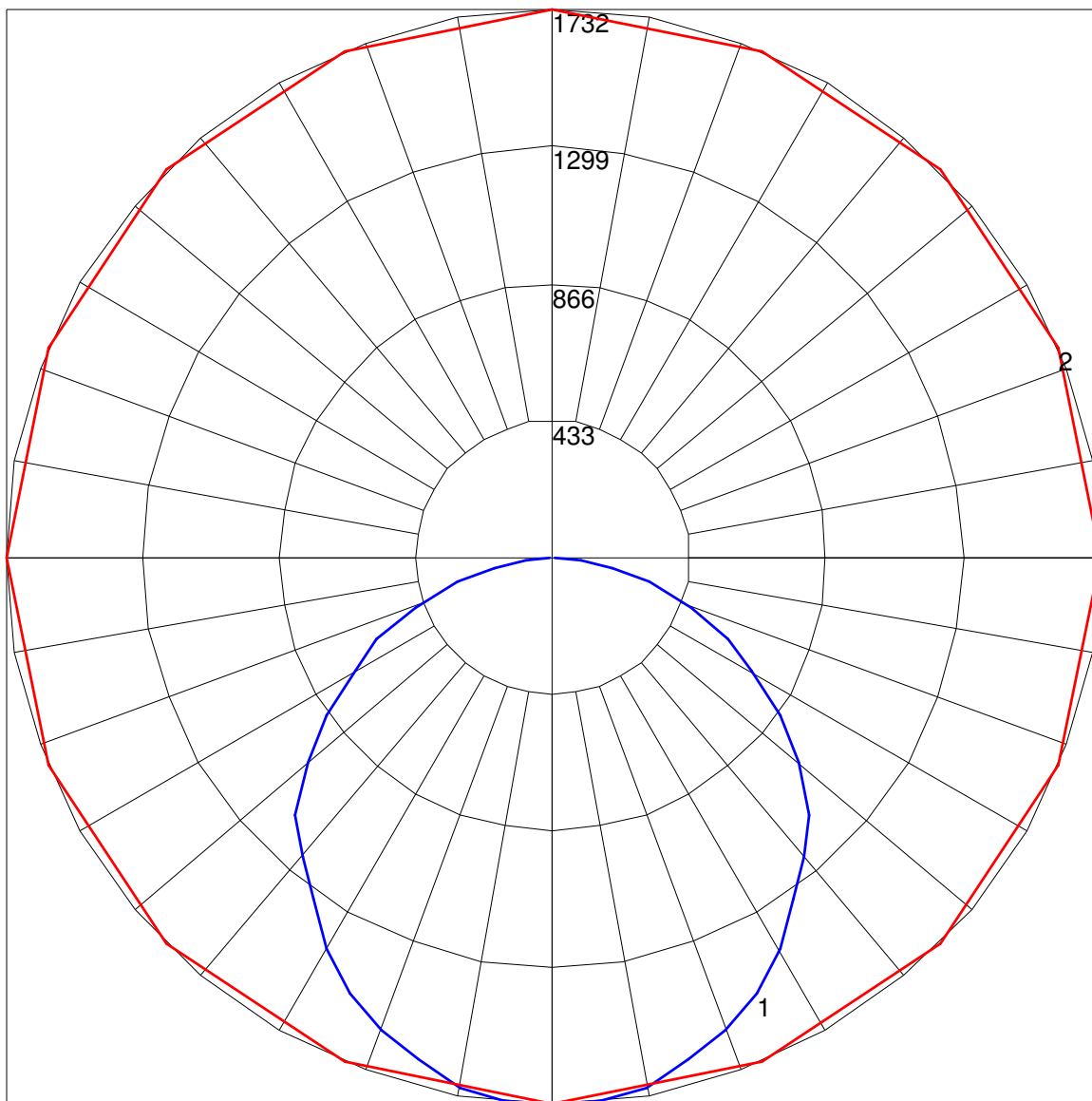
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COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD

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	109	104	100	96	106	102	98	94	97	94	91	93	91	88	90	88	86	84
2	99	90	84	78	96	89	82	77	85	80	75	82	77	73	79	75	72	70
3	90	79	71	65	87	78	70	64	75	68	63	72	66	62	69	65	61	58
4	82	70	61	55	80	69	61	54	66	59	54	64	58	53	62	57	52	50
5	76	63	54	47	74	62	53	47	59	52	46	57	51	46	56	50	45	43
6	70	56	47	41	68	55	47	41	54	46	40	52	45	40	50	44	40	38
7	65	51	42	36	63	50	42	36	49	41	36	47	41	35	46	40	35	33
8	60	47	38	32	59	46	38	32	45	37	32	43	37	32	42	36	32	30
9	56	43	35	29	55	42	34	29	41	34	29	40	33	29	39	33	28	27
10	53	40	32	26	51	39	31	26	38	31	26	37	31	26	36	30	26	24

POLAR GRAPH



Maximum Candela = 1731.787 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.)