



IES INDOOR REPORT
PHOTOMETRIC FILENAME : LP-14-L40-840-DIM-UNV.IES

DESCRIPTION INFORMATION (From Photometric File)

IESNA:LM-63-2002
[TEST]GEN FROM BALLABS TEST NO. 20531
[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 1x4'ULTRA THIN SEAMLESS FLAT PANEL LIGHT
[MORE] .39" ALUMINUM FRAME w/PS 1mm DIFFUSE LENS PMMA 2mm LIGHT
[MORE] GUIDE PANEL, LED DRIVER #MG-PA40D01
[LUMCAT] LP-14-L40-840-DIM-UNV
[LAMPCAT] 4014

CHARACTERISTICS

Lumens Per Lamp	N.A. (absolute)
Total Lamp Lumens	N.A. (absolute)
Luminaire Lumens	4098
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	103
Total Luminaire Watts	39.6
Ballast Factor	1.00
CIE Type	Direct
Spacing Criterion (0-180)	1.24
Spacing Criterion (90-270)	1.26
Spacing Criterion (Diagonal)	1.38
Basic Luminous Shape	Rectangular
Luminous Length (0-180)	3.81 ft
Luminous Width (90-270)	0.83 ft
Luminous Height	0.00 ft

LUMINANCE DATA (cd/sq.m)

Angle In Degrees	Average 0-Deg	Average 45-Deg	Average 90-Deg
45	4597	4643	4662
55	4343	4349	4377
65	4128	4128	4104
75	3490	3414	3439
85	2918	2768	2656

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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	1456.939	1456.939	1456.939	1456.939	1456.939
5	1457.896	1457.896	1457.896	1457.896	1457.896
10	1439.708	1440.666	1440.666	1441.623	1441.623
15	1402.376	1402.376	1404.290	1406.205	1408.119
20	1329.624	1329.624	1334.411	1334.411	1337.282
25	1293.249	1296.121	1299.950	1303.779	1303.779
30	1207.096	1207.096	1209.968	1216.669	1217.626
35	1119.986	1119.986	1125.730	1131.473	1133.388
40	1040.534	1043.406	1047.235	1049.149	1053.936
45	954.381	956.296	963.954	965.868	967.783
50	851.955	852.912	857.699	863.442	862.485
55	731.341	732.299	732.299	734.213	737.085
60	610.727	611.685	610.727	608.813	612.642
65	512.130	512.130	512.130	510.216	509.259
70	388.645	388.645	387.687	387.687	384.816
75	265.159	262.287	259.416	259.416	261.330
80	167.519	166.562	162.733	159.861	162.733
85	74.666	72.751	70.837	68.922	67.965
90	4.786	5.744	5.744	4.786	4.786

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ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixt
0-20	532.94	N.A.	13.00
0-30	1126.83	N.A.	27.50
0-40	1833.55	N.A.	44.70
0-60	3229.74	N.A.	78.80
0-80	4013.34	N.A.	97.90
0-90	4097.94	N.A.	100.00
10-90	3959.39	N.A.	96.60
20-40	1300.61	N.A.	31.70
20-50	2040.19	N.A.	49.80
40-70	1896.58	N.A.	46.30
60-80	783.60	N.A.	19.10
70-80	283.21	N.A.	6.90
80-90	84.60	N.A.	2.10
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	4097.94	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	138.55
10-20	394.40
20-30	593.89
30-40	706.72
40-50	739.58
50-60	656.61
60-70	500.39
70-80	283.21
80-90	84.60
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

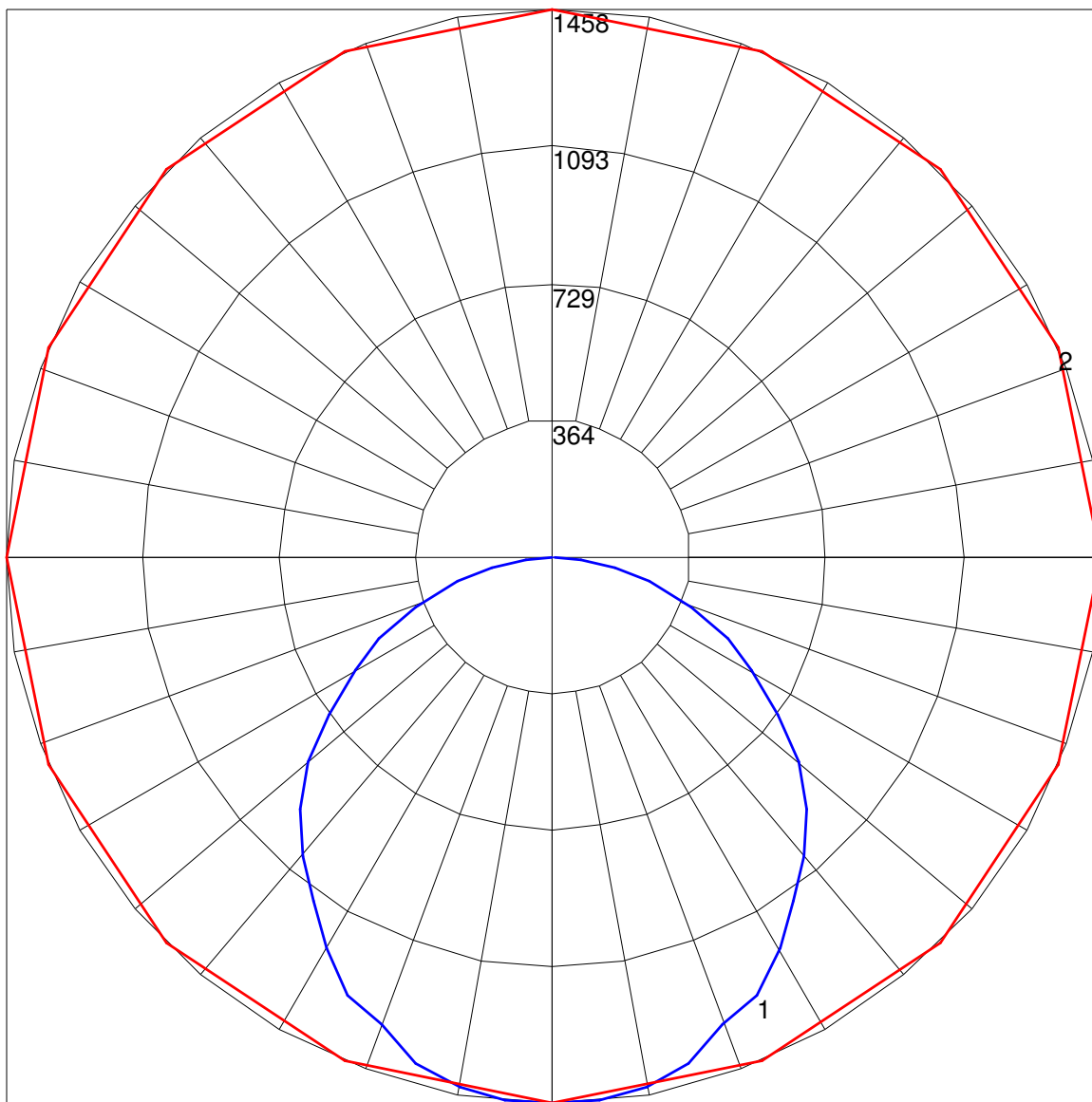
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COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD

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	88	78	70	64	75	68	63	72	66	62	69	65	61	59
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	60	52	46	58	51	46	56	50	45	43
6	70	57	48	41	68	56	47	41	54	46	41	52	45	40	50	45	40	38
7	65	51	42	36	63	50	42	36	49	41	36	47	41	36	46	40	35	33
8	60	47	38	32	59	46	38	32	45	37	32	44	37	32	42	36	32	30
9	56	43	35	29	55	42	34	29	41	34	29	40	33	29	39	33	29	27
10	53	40	32	26	52	39	31	26	38	31	26	37	31	26	36	30	26	24

POLAR GRAPH



Maximum Candela = 1457.896 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.)