



IES INDOOR REPORT
PHOTOMETRIC FILENAME : LP-14-L40-835-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-L40-835-DIM-UNV
 [LAMPCAT] 4014

CHARACTERISTICS

Lumens Per Lamp	N.A. (absolute)
Total Lamp Lumens	N.A. (absolute)
Luminaire Lumens	4029
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	101
Total Luminaire Watts	39.7
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	4520	4565	4583
55	4270	4276	4303
65	4058	4058	4035
75	3431	3357	3381
85	2869	2722	2611

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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	1432.408	1432.408	1432.408	1432.408	1432.408
5	1433.349	1433.349	1433.349	1433.349	1433.349
10	1415.467	1416.409	1416.409	1417.350	1417.350
15	1378.763	1378.763	1380.645	1382.528	1384.410
20	1307.237	1307.237	1311.943	1311.943	1314.766
25	1271.474	1274.297	1278.062	1281.826	1281.826
30	1186.772	1186.772	1189.595	1196.183	1197.124
35	1101.128	1101.128	1106.775	1112.422	1114.304
40	1023.014	1025.837	1029.602	1031.484	1036.190
45	938.312	940.194	947.723	949.605	951.488
50	837.610	838.551	843.257	848.904	847.963
55	719.027	719.968	719.968	721.851	724.674
60	600.444	601.385	600.444	598.562	602.327
65	503.507	503.507	503.507	501.625	500.684
70	382.101	382.101	381.160	381.160	378.336
75	260.694	257.871	255.048	255.048	256.930
80	164.699	163.758	159.993	157.170	159.993
85	73.409	71.526	69.644	67.762	66.821
90	4.706	5.647	5.647	4.706	4.706

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ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixt
0-20	523.97	N.A.	13.00
0-30	1107.86	N.A.	27.50
0-40	1802.68	N.A.	44.70
0-60	3175.36	N.A.	78.80
0-80	3945.77	N.A.	97.90
0-90	4028.94	N.A.	100.00
10-90	3892.73	N.A.	96.60
20-40	1278.71	N.A.	31.70
20-50	2005.84	N.A.	49.80
40-70	1864.65	N.A.	46.30
60-80	770.41	N.A.	19.10
70-80	278.44	N.A.	6.90
80-90	83.17	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	4028.94	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	136.21
10-20	387.76
20-30	583.89
30-40	694.82
40-50	727.13
50-60	645.55
60-70	491.97
70-80	278.44
80-90	83.17
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

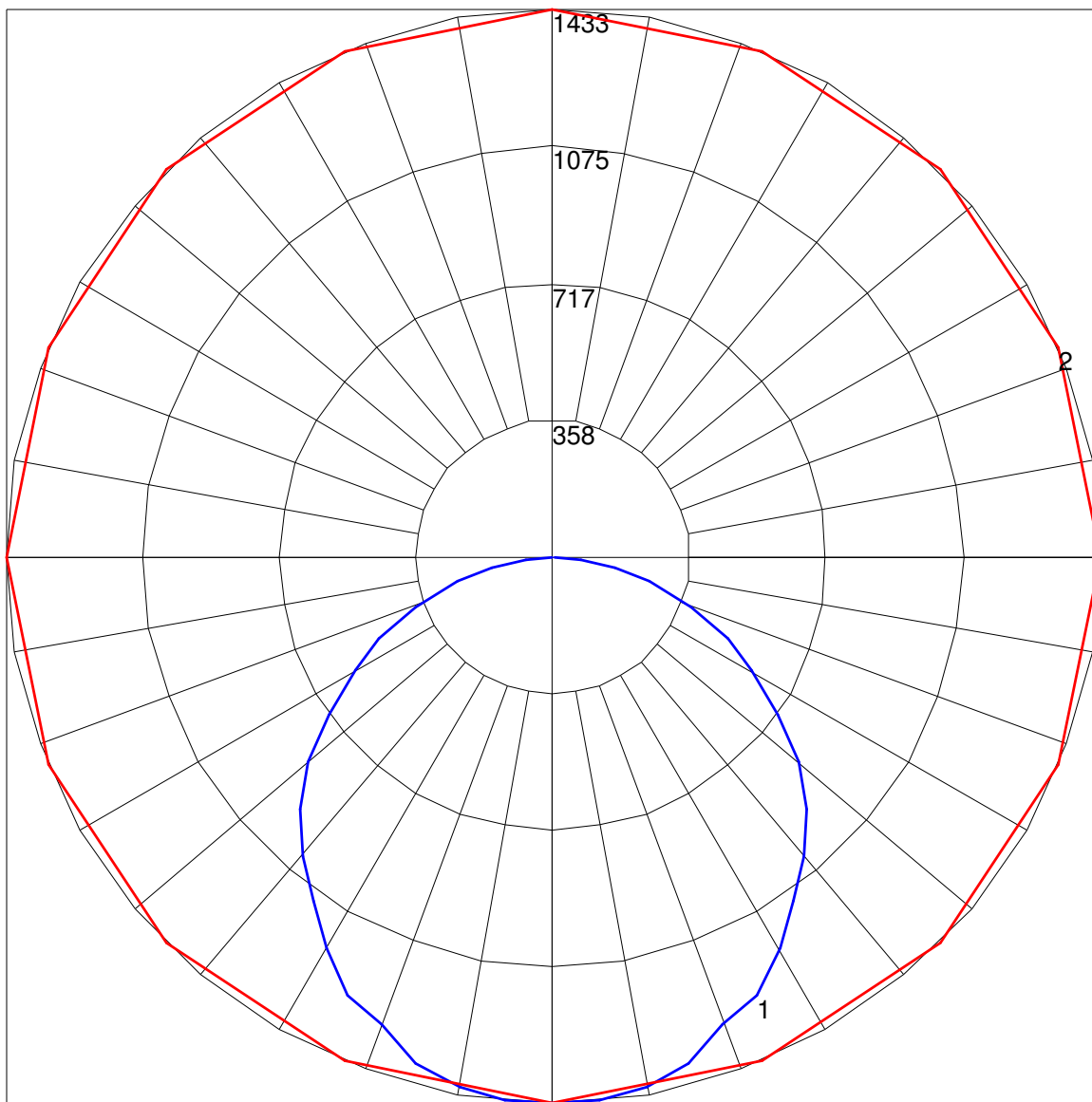
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COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD

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 = 1433.349 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.)