



IES INDOOR REPORT
PHOTOMETRIC FILENAME : LP-22-L40-835-DIM-UNV.IES

DESCRIPTION INFORMATION (From Photometric File)

IESNA:LM-63-2002
[TEST]GEN FROM BALLABS TEST NO. 20530
[TESTLAB] BUILDING ACOUSTICS & LIGHTING LABORATORIES, INC
[ISSUE DATE] 28-JUN-2018
[MANUFAC] WILLIAMS INDOOR
[OTHER] H.E. WILLIAMS, INC - CARTHAGE, MO
[LUMINAIRE] 2-48 LED ARRAYS 2x2' 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-22-L40-835-DIM-UNV
[LAMPCAT] 4014

CHARACTERISTICS

Lumens Per Lamp	N.A. (absolute)
Total Lamp Lumens	N.A. (absolute)
Luminaire Lumens	4155
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	106
Total Luminaire Watts	39.2
Ballast Factor	1.00
CIE Type	Direct
Spacing Criterion (0-180)	1.28
Spacing Criterion (90-270)	1.26
Spacing Criterion (Diagonal)	1.38
Basic Luminous Shape	Rectangular
Luminous Length (0-180)	1.80 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	4622	4577	4591
55	4411	4345	4378
65	4055	4026	3974
75	3456	3347	3335
85	2009	1794	1830

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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	1462.749	1462.749	1462.749	1462.749	1462.749
5	1463.693	1459.916	1457.083	1455.194	1453.306
10	1444.807	1441.030	1438.197	1434.419	1433.475
15	1414.589	1410.811	1406.090	1404.201	1403.257
20	1371.150	1368.317	1364.540	1360.762	1360.762
25	1317.324	1314.491	1309.769	1307.881	1307.881
30	1250.277	1243.667	1245.556	1240.834	1240.834
35	1168.122	1162.456	1163.400	1162.456	1162.456
40	1082.189	1079.356	1079.356	1077.467	1075.578
45	986.812	986.812	977.369	977.369	980.202
50	876.327	877.272	873.494	867.828	869.717
55	763.953	758.287	752.622	758.287	758.287
60	638.359	637.415	634.582	633.637	632.693
65	517.486	514.653	513.709	513.709	507.099
70	389.059	391.892	387.170	381.505	381.505
75	270.075	263.465	261.576	261.576	260.632
80	147.314	150.147	147.314	147.314	144.481
85	52.882	52.882	47.216	47.216	48.160
90	0.000	0.000	0.944	0.000	0.000

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ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixt
0-20	535.80	N.A.	12.90
0-30	1139.82	N.A.	27.40
0-40	1868.4	N.A.	45.00
0-60	3300.97	N.A.	79.40
0-80	4087.8	N.A.	98.40
0-90	4154.97	N.A.	100.00
10-90	4016.47	N.A.	96.70
20-40	1332.6	N.A.	32.10
20-50	2088.69	N.A.	50.30
40-70	1939.77	N.A.	46.70
60-80	786.83	N.A.	18.90
70-80	279.64	N.A.	6.70
80-90	67.17	N.A.	1.60
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	4154.97	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	138.51
10-20	397.29
20-30	604.02
30-40	728.58
40-50	756.09
50-60	676.48
60-70	507.19
70-80	279.64
80-90	67.17
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

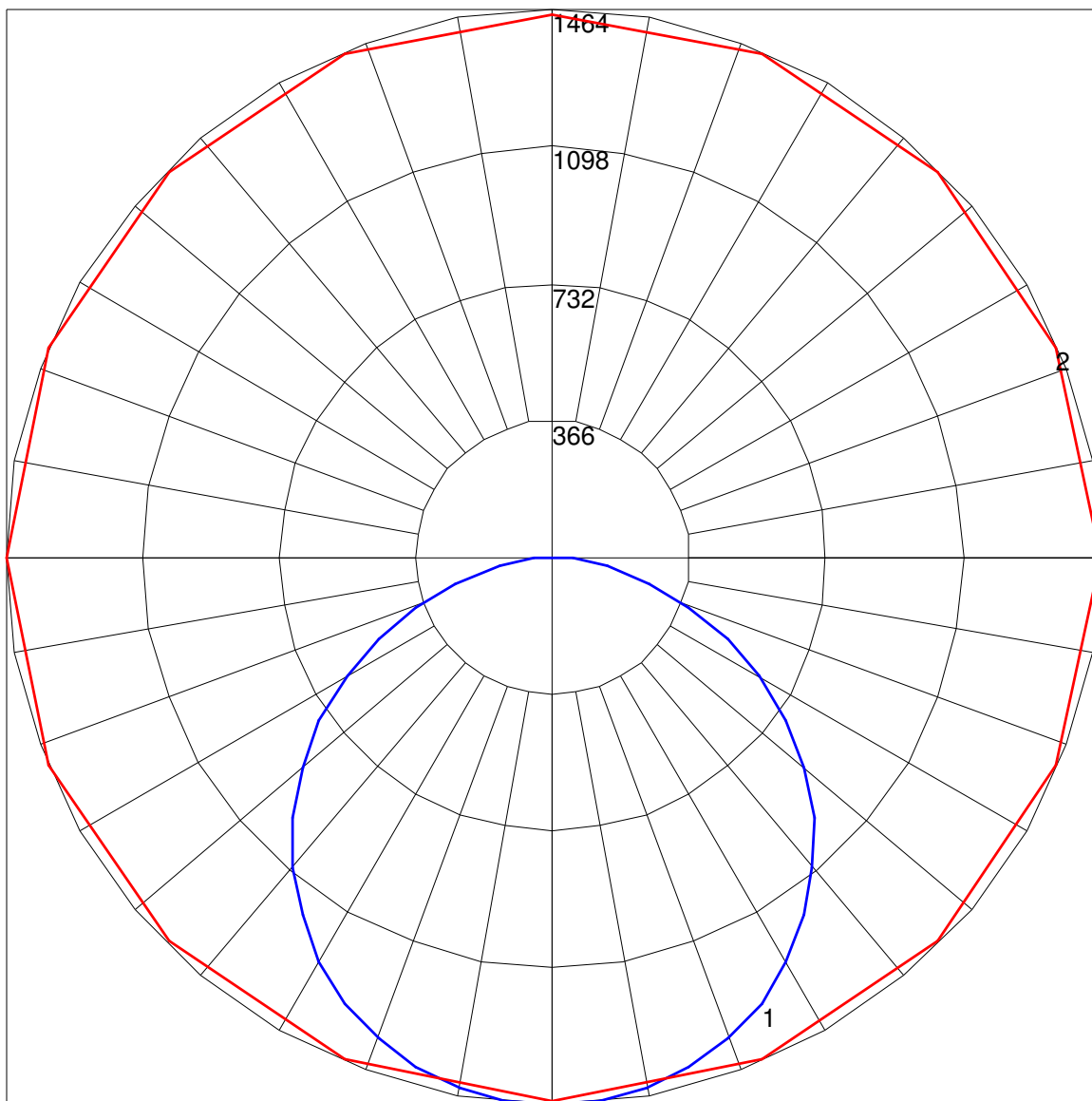
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COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD

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	98	94	91	94	91	89	90	88	86	84
2	99	91	84	78	96	89	83	77	85	80	75	82	78	74	79	75	72	70
3	90	80	71	65	88	78	70	64	75	69	63	72	67	62	70	65	61	59
4	83	71	62	55	80	69	61	55	67	60	54	64	58	53	62	57	52	50
5	76	63	54	47	74	62	53	47	60	52	47	58	51	46	56	50	46	43
6	70	57	48	41	68	56	47	41	54	46	41	52	45	40	51	45	40	38
7	65	51	43	36	63	51	42	36	49	41	36	48	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	35	29	41	34	29	40	34	29	39	33	29	27
10	53	40	32	26	52	39	32	26	38	31	26	37	31	26	36	30	26	24

POLAR GRAPH



Maximum Candela = 1463.693 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.)