



IES INDOOR REPORT

PHOTOMETRIC FILENAME : LP-22-L50-835-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-L50-835-DIM-UNV

CHARACTERISTICS

Lumens Per Lamp	N.A. (absolute)
Total Lamp Lumens	N.A. (absolute)
Luminaire Lumens	4965
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	124
Total Luminaire Watts	39.9
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	5523	5470	5486
55	5271	5193	5232
65	4846	4810	4748
75	4129	3999	3985
85	2401	2144	2187

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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	1747.906	1747.906	1747.906	1747.906	1747.906
5	1749.034	1744.520	1741.135	1738.878	1736.621
10	1726.466	1721.952	1718.567	1714.053	1712.925
15	1690.357	1685.843	1680.201	1677.944	1676.816
20	1638.450	1635.065	1630.551	1626.037	1626.037
25	1574.131	1570.745	1565.103	1562.847	1562.847
30	1494.014	1486.115	1488.372	1482.729	1482.729
35	1395.842	1389.072	1390.200	1389.072	1389.072
40	1293.157	1289.772	1289.772	1287.515	1285.258
45	1179.187	1179.187	1167.903	1167.903	1171.289
50	1047.164	1048.292	1043.778	1037.008	1039.265
55	912.883	906.112	899.342	906.112	906.112
60	762.805	761.676	758.291	757.162	756.034
65	618.368	614.983	613.855	613.855	605.956
70	464.905	468.290	462.648	455.877	455.877
75	322.725	314.826	312.569	312.569	311.441
80	176.032	179.417	176.032	176.032	172.647
85	63.191	63.191	56.420	56.420	57.549
90	0.000	0.000	1.128	0.000	0.000

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ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixt
0-20	640.25	N.A.	12.90
0-30	1362.02	N.A.	27.40
0-40	2232.63	N.A.	45.00
0-60	3944.48	N.A.	79.40
0-80	4884.7	N.A.	98.40
0-90	4964.97	N.A.	100.00
10-90	4799.46	N.A.	96.70
20-40	1592.39	N.A.	32.10
20-50	2495.88	N.A.	50.30
40-70	2317.92	N.A.	46.70
60-80	940.22	N.A.	18.90
70-80	334.15	N.A.	6.70
80-90	80.27	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	4964.97	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	165.51
10-20	474.74
20-30	721.77
30-40	870.61
40-50	903.49
50-60	808.36
60-70	606.07
70-80	334.15
80-90	80.27
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

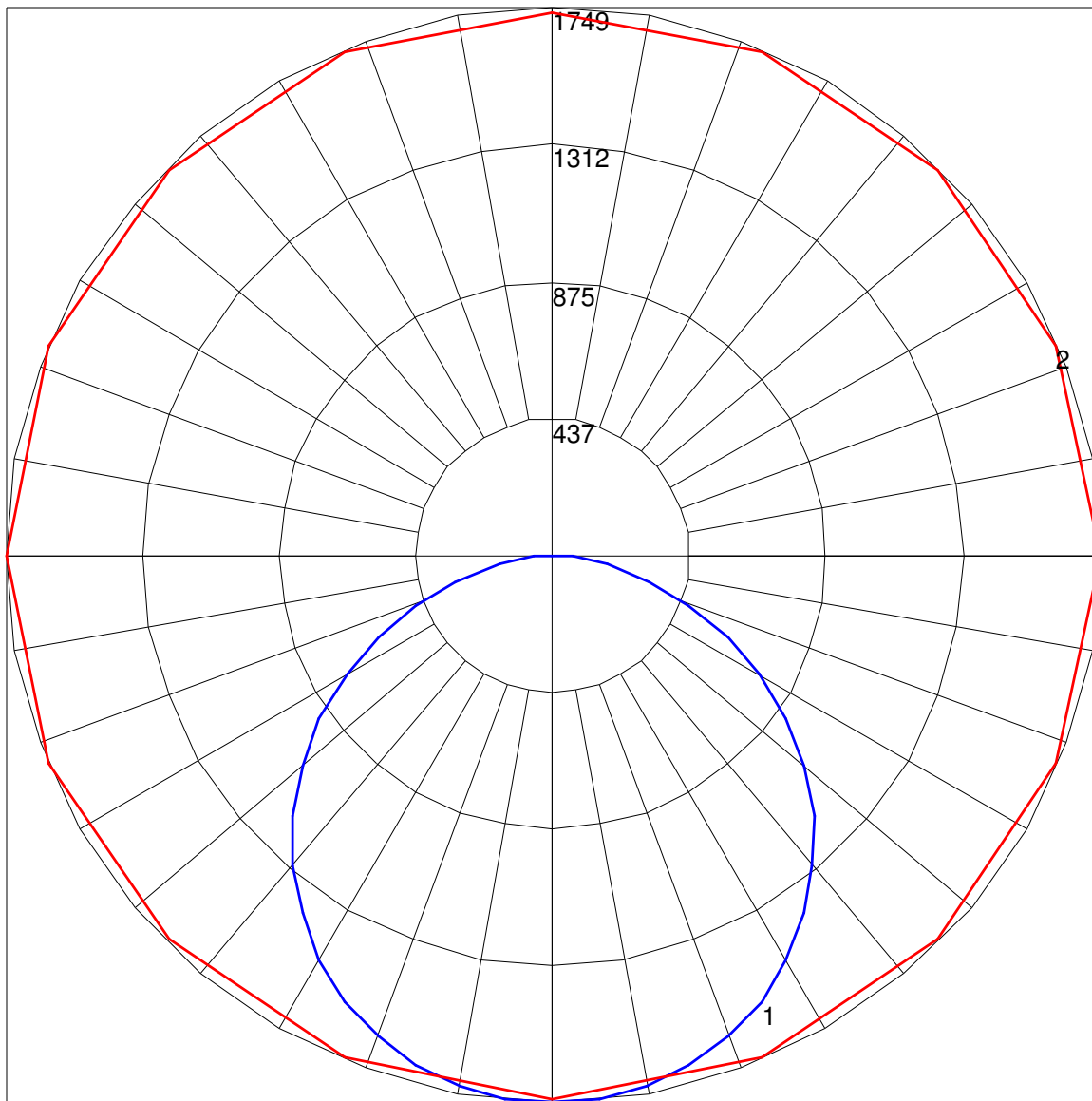
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COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD

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	142	142	142	142	139	139	139	139	133	133	133	127	127	127	122	122	122	119
1	130	124	119	115	127	122	117	113	117	113	109	112	109	106	108	105	103	100
2	118	108	100	93	115	106	99	92	102	96	90	98	93	88	94	90	86	84
3	108	95	85	78	105	93	84	77	90	82	76	86	80	74	83	78	73	70
4	99	84	74	66	96	83	73	65	80	71	64	77	69	63	74	68	63	60
5	91	75	64	57	88	74	64	56	71	62	56	69	61	55	67	60	54	52
6	84	68	57	49	81	67	56	49	64	55	49	62	54	48	61	53	48	45
7	78	61	51	44	76	60	50	43	59	50	43	57	49	43	55	48	42	40
8	72	56	46	39	70	55	45	39	54	45	38	52	44	38	51	43	38	36
9	67	51	42	35	66	51	41	35	49	41	35	48	40	34	47	40	34	32
10	63	47	38	32	62	47	38	32	46	37	31	44	37	31	43	36	31	29

POLAR GRAPH



Maximum Candela = 1749.034 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.)