



## IES INDOOR REPORT

PHOTOMETRIC FILENAME : LP-22-L50-840-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-L50-840-DIM-UNV

### CHARACTERISTICS

Lumens Per Lamp	N.A. (absolute)
Total Lamp Lumens	N.A. (absolute)
Luminaire Lumens	5091
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	129
Total Luminaire Watts	39.5
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	5663	5609	5625
55	5404	5324	5364
65	4969	4932	4869
75	4234	4101	4086
85	2462	2198	2242

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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>
<b>0</b>	1792.229	1792.229	1792.229	1792.229	1792.229
<b>5</b>	1793.386	1788.757	1785.286	1782.972	1780.658
<b>10</b>	1770.245	1765.617	1762.146	1757.518	1756.361
<b>15</b>	1733.220	1728.592	1722.807	1720.493	1719.336
<b>20</b>	1679.997	1676.526	1671.898	1667.270	1667.270
<b>25</b>	1614.047	1610.576	1604.791	1602.477	1602.477
<b>30</b>	1531.898	1523.799	1526.113	1520.328	1520.328
<b>35</b>	1431.237	1424.295	1425.452	1424.295	1424.295
<b>40</b>	1325.948	1322.477	1322.477	1320.163	1317.849
<b>45</b>	1209.089	1209.089	1197.519	1197.519	1200.990
<b>50</b>	1073.717	1074.874	1070.246	1063.304	1065.618
<b>55</b>	936.032	929.089	922.147	929.089	929.089
<b>60</b>	782.148	780.990	777.519	776.362	775.205
<b>65</b>	634.049	630.578	629.420	629.420	621.321
<b>70</b>	476.693	480.165	474.379	467.437	467.437
<b>75</b>	330.909	322.809	320.495	320.495	319.338
<b>80</b>	180.496	183.967	180.496	180.496	177.025
<b>85</b>	64.793	64.793	57.851	57.851	59.008
<b>90</b>	0.000	0.000	1.157	0.000	0.000

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**ZONAL LUMEN SUMMARY**

Zone	Lumens	%Lamp	%Fixt
0-20	656.48	N.A.	12.90
0-30	1396.56	N.A.	27.40
0-40	2289.25	N.A.	45.00
0-60	4044.5	N.A.	79.40
0-80	5008.57	N.A.	98.40
0-90	5090.87	N.A.	100.00
10-90	4921.16	N.A.	96.70
20-40	1632.76	N.A.	32.10
20-50	2559.17	N.A.	50.30
40-70	2376.69	N.A.	46.70
60-80	964.06	N.A.	18.90
70-80	342.63	N.A.	6.70
80-90	82.30	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	5090.87	N.A.	100.00

Total Luminaire Efficiency = N.A. %

**ZONAL LUMEN SUMMARY**

Zone	Lumens
0-10	169.71
10-20	486.78
20-30	740.07
30-40	892.69
40-50	926.40
50-60	828.85
60-70	621.44
70-80	342.63
80-90	82.30
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

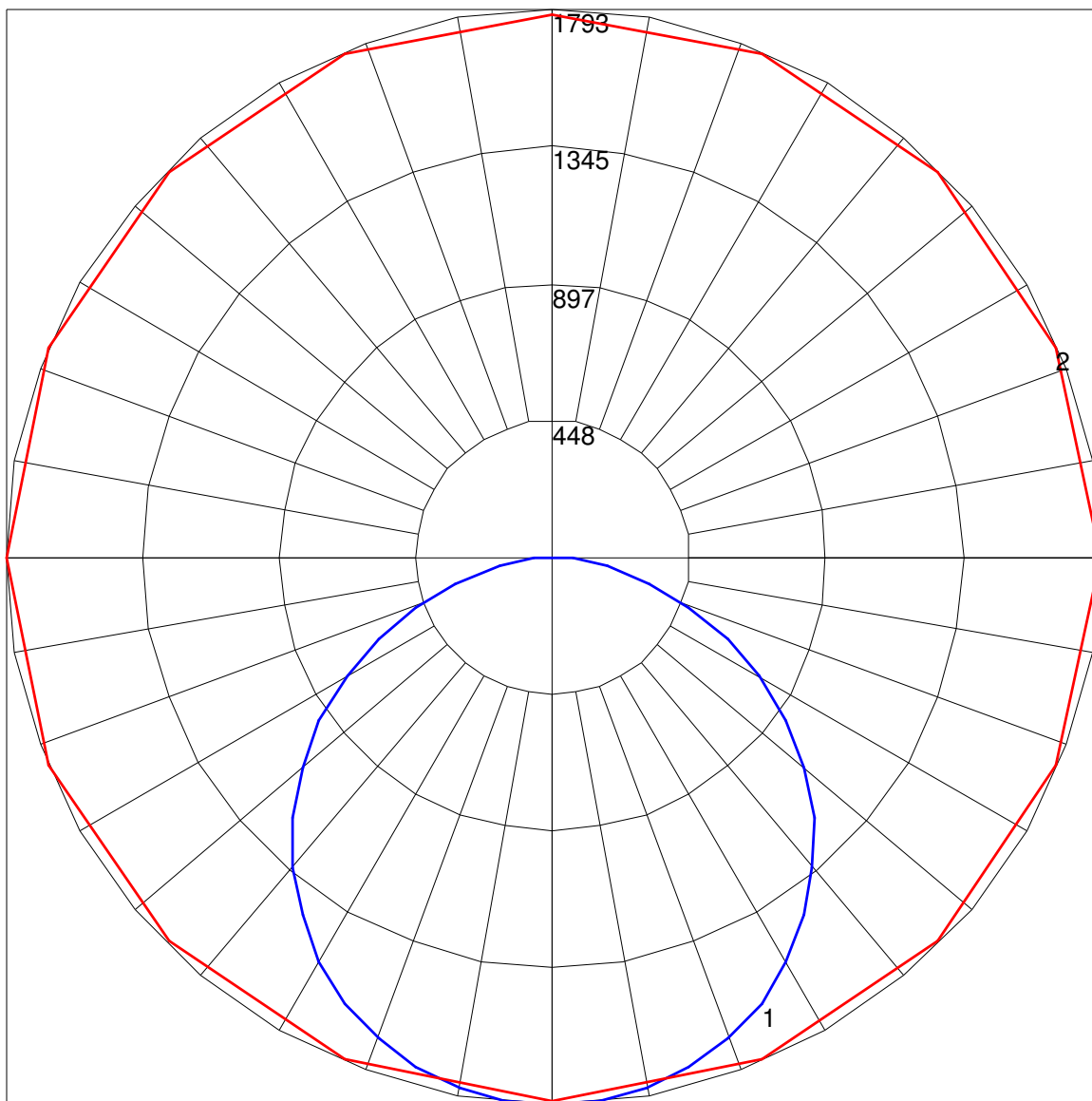
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**COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD**

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	146	146	146	146	142	142	142	142	136	136	136	130	130	130	125	125	125	123
1	133	128	122	118	130	125	120	116	120	116	112	115	112	109	110	108	105	103
2	121	111	103	96	118	109	101	95	104	98	92	100	95	90	97	92	88	86
3	111	98	88	80	107	96	86	79	92	84	77	89	82	76	85	80	75	72
4	101	86	76	67	98	85	75	67	82	73	66	79	71	65	76	70	64	62
5	93	77	66	58	90	76	65	58	73	64	57	71	63	56	68	61	56	53
6	86	69	58	51	83	68	58	50	66	57	50	64	56	49	62	55	49	46
7	80	63	52	45	77	62	52	44	60	51	44	58	50	44	57	49	43	41
8	74	57	47	40	72	57	47	40	55	46	39	53	45	39	52	44	39	37
9	69	53	43	36	67	52	42	36	51	42	35	49	41	35	48	41	35	33
10	65	49	39	32	63	48	39	32	47	38	32	46	38	32	44	37	32	30

POLAR GRAPH



Maximum Candela = 1793.386 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.)