



**IES INDOOR REPORT**  
**PHOTOMETRIC FILENAME : LP-22-L40-840-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-L40-840-DIM-UNV  
 [LAMPCAT] 4014

**CHARACTERISTICS**

Lumens Per Lamp	N.A. (absolute)
Total Lamp Lumens	N.A. (absolute)
Luminaire Lumens	4194
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	107
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	4665	4620	4634
55	4452	4386	4419
65	4093	4063	4011
75	3488	3378	3366
85	2028	1811	1847

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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>	1476.479	1476.479	1476.479	1476.479	1476.479
<b>5</b>	1477.432	1473.619	1470.760	1468.853	1466.947
<b>10</b>	1458.368	1454.556	1451.696	1447.883	1446.930
<b>15</b>	1427.867	1424.054	1419.288	1417.382	1416.428
<b>20</b>	1384.020	1381.161	1377.348	1373.535	1373.535
<b>25</b>	1329.689	1326.829	1322.063	1320.157	1320.157
<b>30</b>	1262.013	1255.341	1257.247	1252.481	1252.481
<b>35</b>	1179.086	1173.367	1174.320	1173.367	1173.367
<b>40</b>	1092.347	1089.487	1089.487	1087.581	1085.674
<b>45</b>	996.075	996.075	986.543	986.543	989.403
<b>50</b>	884.553	885.506	881.693	875.974	877.881
<b>55</b>	771.124	765.405	759.686	765.405	765.405
<b>60</b>	644.351	643.398	640.538	639.585	638.632
<b>65</b>	522.344	519.484	518.531	518.531	511.859
<b>70</b>	392.711	395.571	390.805	385.086	385.086
<b>75</b>	272.610	265.938	264.031	264.031	263.078
<b>80</b>	148.696	151.556	148.696	148.696	145.837
<b>85</b>	53.378	53.378	47.659	47.659	48.612
<b>90</b>	0.000	0.000	0.953	0.000	0.000

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**ZONAL LUMEN SUMMARY**

Zone	Lumens	%Lamp	%Fixt
0-20	540.83	N.A.	12.90
0-30	1150.52	N.A.	27.40
0-40	1885.94	N.A.	45.00
0-60	3331.95	N.A.	79.40
0-80	4126.17	N.A.	98.40
0-90	4193.97	N.A.	100.00
10-90	4054.17	N.A.	96.70
20-40	1345.11	N.A.	32.10
20-50	2108.3	N.A.	50.30
40-70	1957.97	N.A.	46.70
60-80	794.22	N.A.	18.90
70-80	282.26	N.A.	6.70
80-90	67.80	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	4193.97	N.A.	100.00

Total Luminaire Efficiency = N.A. %

**ZONAL LUMEN SUMMARY**

Zone	Lumens
0-10	139.81
10-20	401.02
20-30	609.69
30-40	735.42
40-50	763.19
50-60	682.83
60-70	511.96
70-80	282.26
80-90	67.80
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

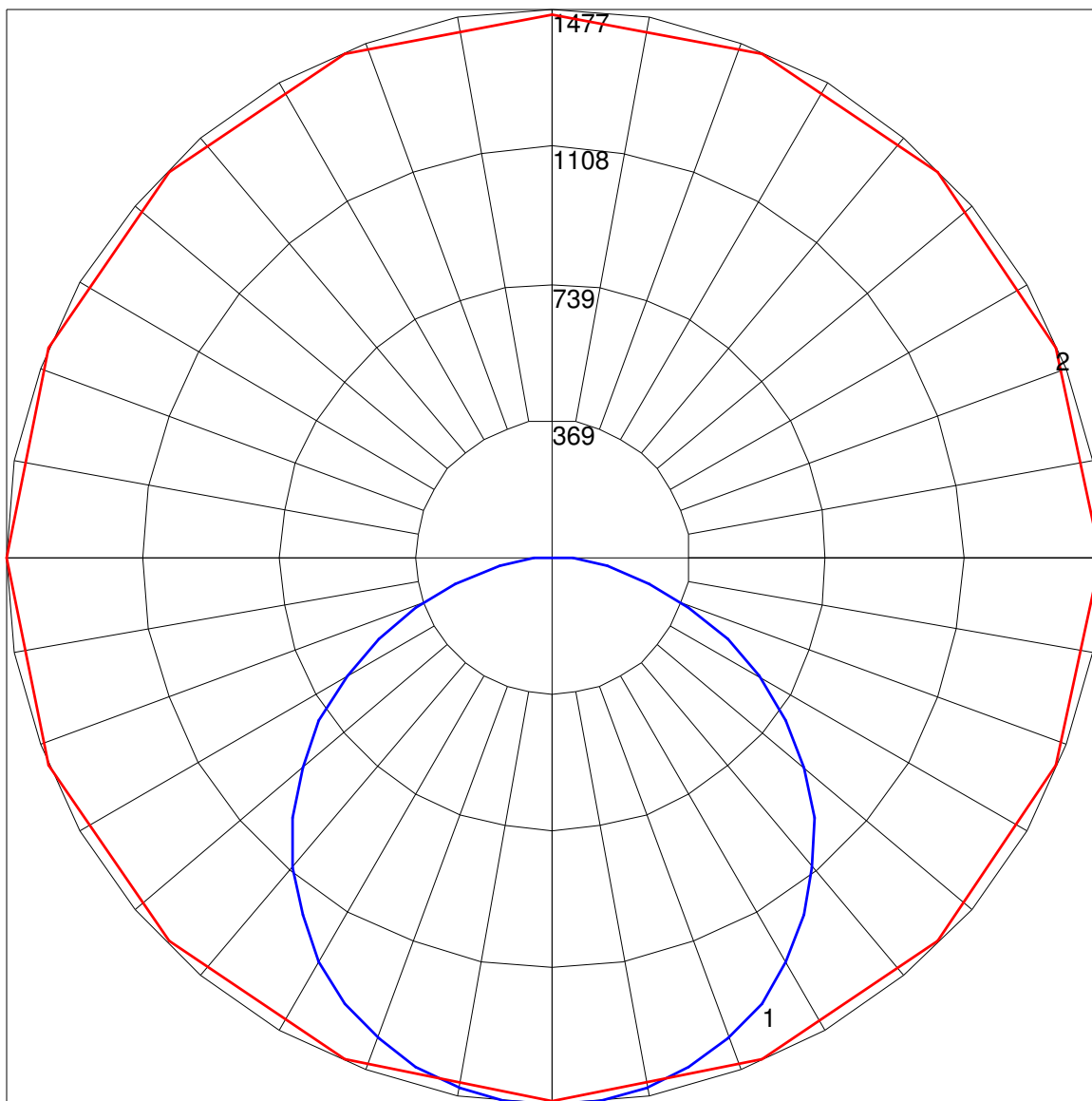
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**COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD**

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 = 1477.432 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.)