



## IES INDOOR REPORT

PHOTOMETRIC FILENAME : LP-24-L62-835-DIM-UNV.IES

### DESCRIPTION INFORMATION (From Photometric File)

IESNA:LM-63-2002  
 [TEST]GEN FROM BALLABS TEST NO. 20528  
 [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 2x4'ULTRA THIN SEAMLESS FLAT PANEL LIGHT  
 [MORE] .39" ALUMINUM FRAME w/PS 1mm DIFFUSE LENS PMMA 2mm LIGHT  
 [MORE] GUIDE PANEL, LED DRIVER #MG-PA50D01  
 [LUMCAT] LP-24-L62-835-DIM-UNV

### CHARACTERISTICS

Lumens Per Lamp	N.A. (absolute)
Total Lamp Lumens	N.A. (absolute)
Luminaire Lumens	6115
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	129
Total Luminaire Watts	47.3
Ballast Factor	1.00
CIE Type	Direct
Spacing Criterion (0-180)	1.24
Spacing Criterion (90-270)	1.26
Spacing Criterion (Diagonal)	1.40
Basic Luminous Shape	Rectangular
Luminous Length (0-180)	3.80 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	3190	3236	3285
55	3000	3039	3081
65	2846	2866	2894
75	2380	2366	2366
85	1968	1909	1870

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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>	2158.556	2158.556	2158.556	2158.556	2158.556
<b>5</b>	2151.999	2148.720	2148.720	2148.720	2148.720
<b>10</b>	2126.861	2125.768	2126.861	2130.140	2130.140
<b>15</b>	2050.355	2050.355	2054.727	2059.099	2060.192
<b>20</b>	1990.244	1990.244	1996.801	2002.266	2004.452
<b>25</b>	1907.180	1909.366	1918.110	1926.853	1929.039
<b>30</b>	1786.957	1790.236	1798.979	1812.094	1817.559
<b>35</b>	1650.339	1653.618	1667.826	1683.128	1688.592
<b>40</b>	1539.952	1546.510	1560.718	1577.112	1581.484
<b>45</b>	1437.216	1441.588	1457.982	1472.190	1479.841
<b>50</b>	1268.903	1273.275	1289.669	1300.599	1308.249
<b>55</b>	1096.219	1097.312	1110.427	1120.263	1125.728
<b>60</b>	906.047	908.233	916.977	925.720	928.999
<b>65</b>	766.151	766.151	771.616	777.080	779.266
<b>70</b>	579.258	580.351	582.537	584.723	585.816
<b>75</b>	392.365	390.180	390.180	389.087	390.180
<b>80</b>	236.075	236.075	231.703	209.844	209.844
<b>85</b>	109.294	108.201	106.015	106.015	103.829
<b>90</b>	8.744	8.744	6.558	6.558	6.558

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**ZONAL LUMEN SUMMARY**

Zone	Lumens	%Lamp	%Fixt
0-20	786.51	N.A.	12.90
0-30	1667.74	N.A.	27.30
0-40	2717.5	N.A.	44.40
0-60	4821.11	N.A.	78.80
0-80	5993.56	N.A.	98.00
0-90	6114.96	N.A.	100.00
10-90	5910.46	N.A.	96.70
20-40	1930.99	N.A.	31.60
20-50	3044.74	N.A.	49.80
40-70	2857.16	N.A.	46.70
60-80	1172.45	N.A.	19.20
70-80	418.90	N.A.	6.90
80-90	121.40	N.A.	2.00
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	6114.96	N.A.	100.00

Total Luminaire Efficiency = N.A. %

**ZONAL LUMEN SUMMARY**

Zone	Lumens
0-10	204.50
10-20	582.02
20-30	881.23
30-40	1049.76
40-50	1113.75
50-60	989.86
60-70	753.55
70-80	418.90
80-90	121.40
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

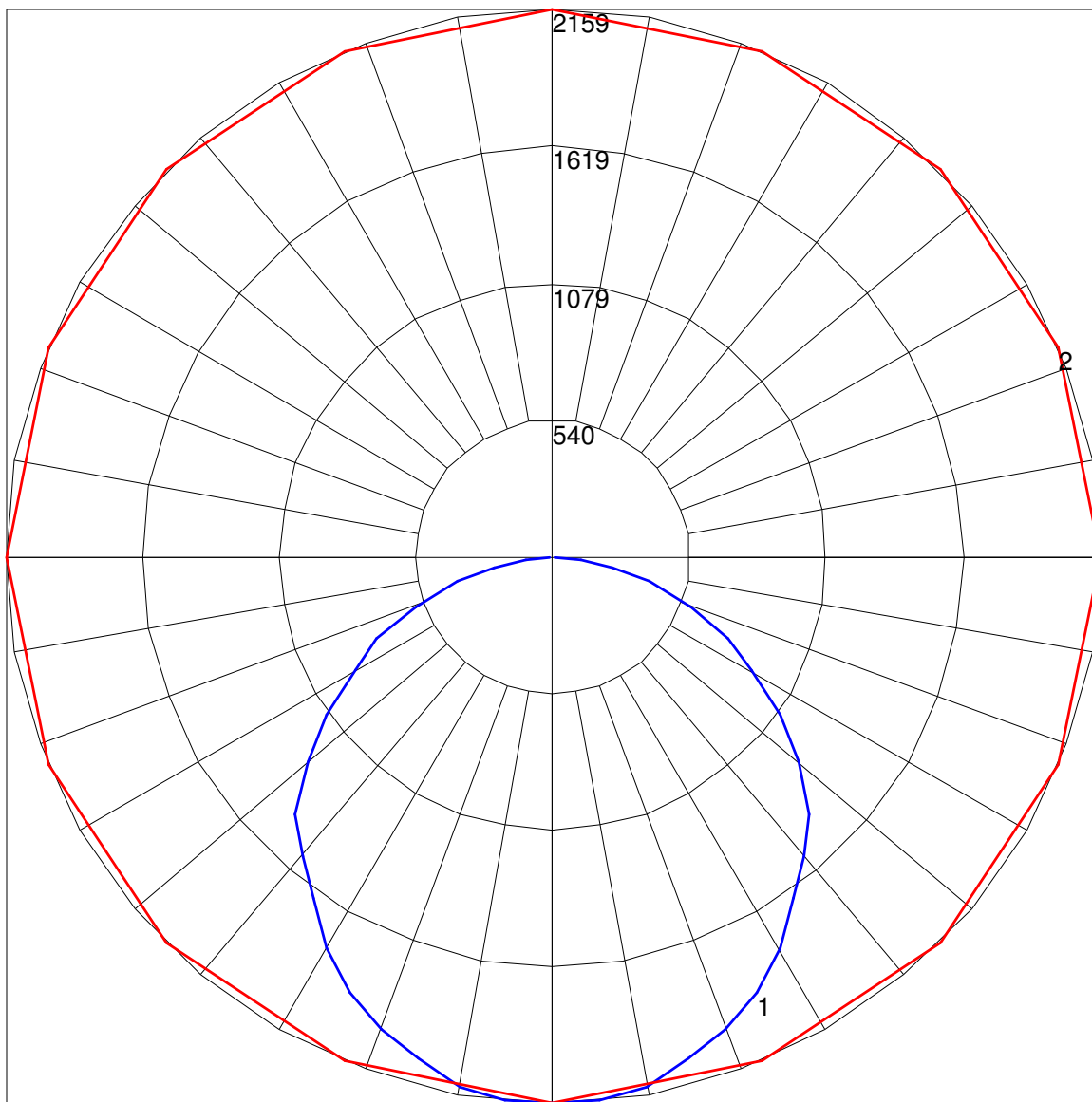
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**COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD**

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	148	148	148	148	145	145	145	145	138	138	138	133	133	133	127	127	127	125
1	135	129	124	119	132	127	122	117	121	117	114	116	113	110	112	109	107	104
2	123	113	104	97	120	110	102	96	106	99	94	102	96	91	98	93	89	87
3	112	99	89	81	109	97	87	80	93	85	78	90	83	77	87	81	76	73
4	103	88	77	68	100	86	76	68	83	74	67	80	72	66	77	70	65	62
5	94	78	67	59	92	77	66	58	74	65	58	72	63	57	69	62	56	54
6	87	70	59	51	85	69	59	51	67	57	50	65	56	50	63	55	49	47
7	81	64	53	45	79	63	52	45	61	51	45	59	51	44	57	50	44	41
8	75	58	48	40	73	57	47	40	56	46	40	54	46	40	53	45	39	37
9	70	53	43	36	68	53	43	36	51	42	36	50	42	36	49	41	35	33
10	66	49	39	33	64	49	39	33	47	39	33	46	38	32	45	38	32	30

POLAR GRAPH



Maximum Candela = 2158.556 Located At Horizontal Angle = 0, Vertical Angle = 0  
# 1 - Vertical Plane Through Horizontal Angles (0 - 180) (Through Max. Cd.)  
# 2 - Horizontal Cone Through Vertical Angle (0) (Through Max. Cd.)