



## IES INDOOR REPORT

PHOTOMETRIC FILENAME : PTS-24-L61-835-SA.IES

### DESCRIPTION INFORMATION (From Photometric File)

IESNA:LM-63-2002  
 [TEST] GEN from BALLABS TEST NO. 20790.0  
 [TESTLAB] BUILDING ACOUSTICS & LIGHTING LABORATORIES, INC  
 [ISSUEDATE] 03-MAY-2019  
 [MANUFAC] WILLIAMS INDOOR  
 [OTHER] H.E. WILLIAMS, INC - CARTHAGE, MO  
 [LUMINAIRE] 2-84 LED 22"ARRAYS w/WHITE REFLECTOR  
 [MORE] FROST SQUARED RIBBED LENS - 2x4 SURFACE LUMINAIRE  
 [MORE] ADVANCE #XI075C200V054BST1 @ 1525mA  
 [LUMCAT] PTS-24-L61-835-SA-DIM-UNV  
 [LAMPCAT] HLM 80 CRI 3500K CCT

### CHARACTERISTICS

Lumens Per Lamp	N.A. (absolute)
Total Lamp Lumens	N.A. (absolute)
Luminaire Lumens	6241
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	129
Total Luminaire Watts	48.5
Ballast Factor	1.00
CIE Type	Direct
Spacing Criterion (0-180)	1.20
Spacing Criterion (90-270)	1.16
Spacing Criterion (Diagonal)	1.28
Basic Luminous Shape	Rectangular
Luminous Length (0-180)	3.92 ft
Luminous Width (90-270)	1.98 ft
Luminous Height	0.00 ft

### LUMINANCE DATA (cd/sq.m)

Angle In Degrees	Average 0-Deg	Average 45-Deg	Average 90-Deg
45	2759	2673	2653
55	2483	2497	2552
65	2169	2400	2629
75	1751	2424	3024
85	812	2616	3161

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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>	2430.521	2430.521	2430.521	2430.521	2430.521
<b>5</b>	2442.597	2415.763	2402.345	2368.802	2399.662
<b>10</b>	2395.637	2366.790	2349.348	2345.993	2350.689
<b>15</b>	2316.475	2288.299	2272.870	2267.503	2263.478
<b>20</b>	2211.151	2183.645	2158.153	2145.406	2147.419
<b>25</b>	2079.662	2056.853	2046.119	2012.576	1999.830
<b>30</b>	1926.036	1902.556	1878.405	1860.291	1850.229
<b>35</b>	1766.371	1744.904	1716.057	1691.235	1677.147
<b>40</b>	1583.227	1565.784	1535.596	1516.141	1504.736
<b>45</b>	1406.120	1385.994	1362.514	1351.780	1352.451
<b>50</b>	1218.950	1212.913	1187.420	1192.116	1198.154
<b>55</b>	1026.414	1026.414	1032.452	1048.552	1055.261
<b>60</b>	847.295	851.320	878.825	906.330	923.102
<b>65</b>	660.796	684.947	731.236	778.867	801.005
<b>70</b>	481.677	521.928	588.343	652.075	678.238
<b>75</b>	326.708	368.301	452.159	534.674	564.192
<b>80</b>	171.069	242.180	329.392	416.603	444.109
<b>85</b>	50.985	114.717	164.360	186.499	198.574
<b>90</b>	0.000	2.013	2.683	4.696	2.683

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**ZONAL LUMEN SUMMARY**

Zone	Lumens	%Lamp	%Fixt
0-20	869.67	N.A.	13.90
0-30	1806.97	N.A.	29.00
0-40	2880.94	N.A.	46.20
0-60	4868.82	N.A.	78.00
0-80	6072.01	N.A.	97.30
0-90	6241.28	N.A.	100.00
10-90	6013.2	N.A.	96.30
20-40	2011.27	N.A.	32.20
20-50	3069.46	N.A.	49.20
40-70	2713.23	N.A.	43.50
60-80	1203.19	N.A.	19.30
70-80	477.85	N.A.	7.70
80-90	169.27	N.A.	2.70
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	6241.28	N.A.	100.00

Total Luminaire Efficiency = N.A. %

**ZONAL LUMEN SUMMARY**

Zone	Lumens
0-10	228.08
10-20	641.59
20-30	937.30
30-40	1073.97
40-50	1058.2
50-60	929.69
60-70	725.35
70-80	477.85
80-90	169.27
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

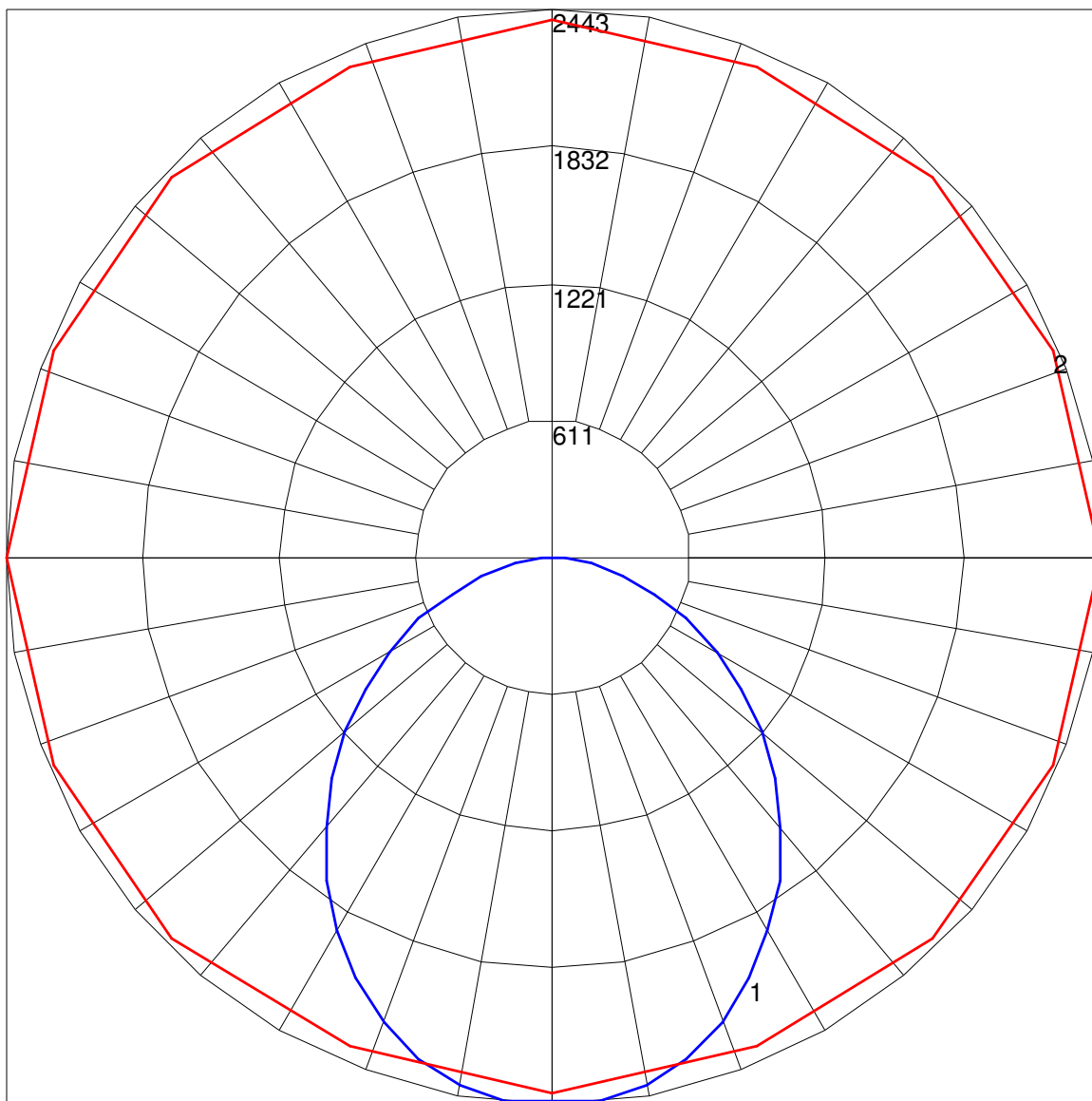
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**COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD**

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	85	85	85	85	83	83	83	83	79	79	79	76	76	76	73	73	73	72
1	78	74	71	68	76	72	70	67	69	67	65	67	65	63	64	62	61	59
2	71	65	60	55	69	63	59	55	61	57	53	58	55	52	56	53	51	50
3	64	57	51	46	63	56	50	46	53	49	45	52	48	44	50	46	43	42
4	59	50	44	39	57	49	44	39	48	43	38	46	42	38	44	41	37	36
5	54	45	39	34	53	44	38	34	43	37	33	41	37	33	40	36	33	31
6	50	41	34	30	49	40	34	30	39	33	29	38	33	29	36	32	29	27
7	47	37	31	26	45	36	31	26	35	30	26	34	30	26	33	29	26	24
8	44	34	28	24	42	33	28	24	32	27	23	32	27	23	31	26	23	22
9	41	31	25	21	40	31	25	21	30	25	21	29	24	21	28	24	21	20
10	38	29	23	19	37	28	23	19	28	23	19	27	22	19	26	22	19	18

POLAR GRAPH



Maximum Candela = 2442.597 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.)