



## IES INDOOR REPORT

PHOTOMETRIC FILENAME : PTS-24-L77-8TW-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-L77-8TW-SA-DIM-UNV

### CHARACTERISTICS

Lumens Per Lamp	N.A. (absolute)
Total Lamp Lumens	N.A. (absolute)
Luminaire Lumens	7947
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	122
Total Luminaire Watts	65
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	3513	3404	3379
55	3161	3180	3250
65	2762	3056	3348
75	2230	3086	3851
85	1033	3331	4025

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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>	3094.913	3094.913	3094.913	3094.913	3094.913
<b>5</b>	3110.290	3076.120	3059.035	3016.323	3055.618
<b>10</b>	3050.493	3013.760	2991.550	2987.279	2993.259
<b>15</b>	2949.692	2913.814	2894.167	2887.333	2882.207
<b>20</b>	2815.577	2780.553	2748.092	2731.861	2734.424
<b>25</b>	2648.145	2619.101	2605.433	2562.721	2546.491
<b>30</b>	2452.524	2422.626	2391.873	2368.809	2355.995
<b>35</b>	2249.215	2221.879	2185.147	2153.540	2135.601
<b>40</b>	2016.008	1993.797	1955.356	1930.583	1916.061
<b>45</b>	1790.488	1764.861	1734.962	1721.295	1722.149
<b>50</b>	1552.155	1544.467	1512.006	1517.985	1525.673
<b>55</b>	1306.988	1306.988	1314.676	1335.178	1343.720
<b>60</b>	1078.906	1084.031	1119.055	1154.079	1175.435
<b>65</b>	841.427	872.180	931.122	991.773	1019.963
<b>70</b>	613.345	664.599	749.169	830.322	863.637
<b>75</b>	416.015	468.978	575.758	680.830	718.416
<b>80</b>	217.831	308.381	419.432	530.483	565.507
<b>85</b>	64.922	146.075	209.289	237.479	252.855
<b>90</b>	0.000	2.563	3.417	5.980	3.417

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**ZONAL LUMEN SUMMARY**

Zone	Lumens	%Lamp	%Fixt
0-20	1107.4	N.A.	13.90
0-30	2300.91	N.A.	29.00
0-40	3668.45	N.A.	46.20
0-60	6199.73	N.A.	78.00
0-80	7731.82	N.A.	97.30
0-90	7947.36	N.A.	100.00
10-90	7656.93	N.A.	96.30
20-40	2561.05	N.A.	32.20
20-50	3908.51	N.A.	49.20
40-70	3454.9	N.A.	43.50
60-80	1532.09	N.A.	19.30
70-80	608.47	N.A.	7.70
80-90	215.54	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	7947.36	N.A.	100.00

Total Luminaire Efficiency = N.A. %

**ZONAL LUMEN SUMMARY**

Zone	Lumens
0-10	290.43
10-20	816.97
20-30	1193.52
30-40	1367.54
40-50	1347.46
50-60	1183.82
60-70	923.62
70-80	608.47
80-90	215.54
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

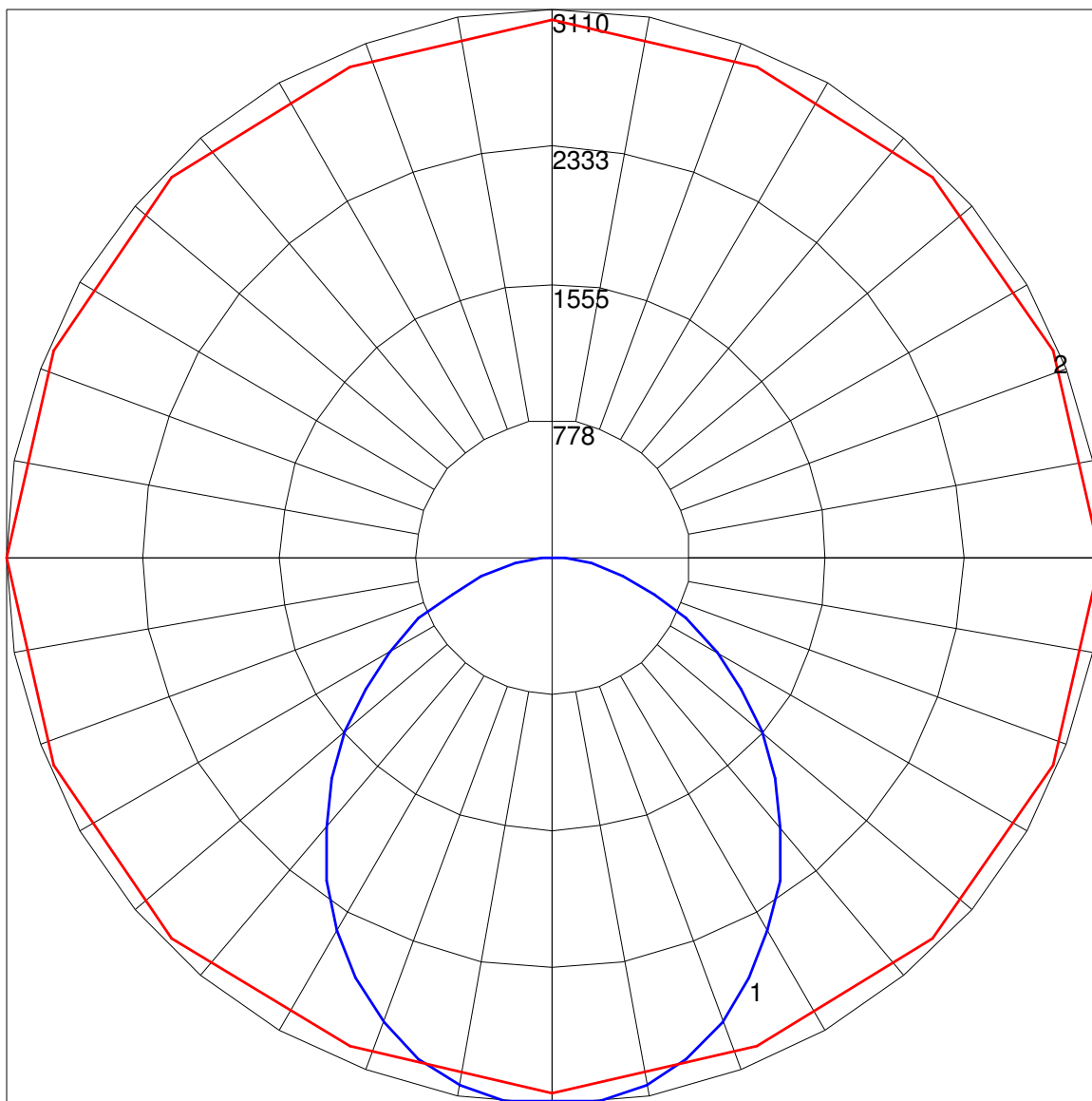
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**COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD**

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	108	104	99	95	106	101	97	94	97	94	91	93	90	88	89	87	85	83
2	99	90	83	77	96	88	82	77	85	79	75	81	77	73	78	75	71	69
3	90	79	71	65	87	78	70	64	75	68	63	72	66	62	69	65	61	58
4	83	70	62	55	80	69	61	55	67	59	54	64	58	53	62	57	52	50
5	76	63	54	47	74	62	54	47	60	52	47	58	51	46	56	50	46	44
6	70	57	48	42	68	56	48	41	54	47	41	53	46	41	51	45	40	38
7	65	52	43	37	64	51	43	37	49	42	37	48	41	36	47	41	36	34
8	61	47	39	33	59	47	39	33	45	38	33	44	37	33	43	37	32	30
9	57	44	35	30	56	43	35	30	42	35	30	41	34	29	40	34	29	27
10	53	40	32	27	52	40	32	27	39	32	27	38	31	27	37	31	27	25

POLAR GRAPH



Maximum Candela = 3110.29 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.)