



## IES INDOOR REPORT

PHOTOMETRIC FILENAME : PTS-24-L84-835-SA-DIM-UNV.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-L84-835-SA-DIM-UNV  
 [LAMPCAT] HLM 80 CRI 3500K CCT

### CHARACTERISTICS

Lumens Per Lamp	N.A. (absolute)
Total Lamp Lumens	N.A. (absolute)
Luminaire Lumens	8724
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	128
Total Luminaire Watts	68.1
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	3856	3737	3709
55	3470	3491	3568
65	3032	3355	3675
75	2448	3388	4227
85	1134	3657	4418

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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>	3397.512	3397.512	3397.512	3397.512	3397.512
<b>5</b>	3414.392	3376.881	3358.126	3311.238	3354.375
<b>10</b>	3348.748	3308.424	3284.043	3279.354	3285.918
<b>15</b>	3238.092	3198.706	3177.138	3169.636	3164.009
<b>20</b>	3090.864	3052.415	3016.780	2998.963	3001.776
<b>25</b>	2907.062	2875.178	2860.174	2813.286	2795.469
<b>30</b>	2692.315	2659.493	2625.734	2600.414	2586.348
<b>35</b>	2469.127	2439.119	2398.795	2364.098	2344.405
<b>40</b>	2213.118	2188.737	2146.537	2119.342	2103.400
<b>45</b>	1965.549	1937.416	1904.595	1889.590	1890.528
<b>50</b>	1703.914	1695.474	1659.839	1666.403	1674.843
<b>55</b>	1434.776	1434.776	1443.216	1465.722	1475.100
<b>60</b>	1184.393	1190.020	1228.468	1266.916	1290.361
<b>65</b>	923.696	957.455	1022.161	1088.742	1119.688
<b>70</b>	673.313	729.579	822.417	911.505	948.077
<b>75</b>	456.690	514.831	632.052	747.396	788.658
<b>80</b>	239.129	338.532	460.441	582.350	620.798
<b>85</b>	71.270	160.357	229.752	260.698	277.578
<b>90</b>	0.000	2.813	3.751	6.564	3.751

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**ZONAL LUMEN SUMMARY**

Zone	Lumens	%Lamp	%Fixt
0-20	1215.67	N.A.	13.90
0-30	2525.88	N.A.	29.00
0-40	4027.12	N.A.	46.20
0-60	6805.89	N.A.	78.00
0-80	8487.78	N.A.	97.30
0-90	8724.39	N.A.	100.00
10-90	8405.57	N.A.	96.30
20-40	2811.45	N.A.	32.20
20-50	4290.66	N.A.	49.20
40-70	3792.7	N.A.	43.50
60-80	1681.89	N.A.	19.30
70-80	667.96	N.A.	7.70
80-90	236.62	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	8724.39	N.A.	100.00

Total Luminaire Efficiency = N.A. %

**ZONAL LUMEN SUMMARY**

Zone	Lumens
0-10	318.82
10-20	896.85
20-30	1310.21
30-40	1501.25
40-50	1479.2
50-60	1299.57
60-70	1013.93
70-80	667.96
80-90	236.62
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

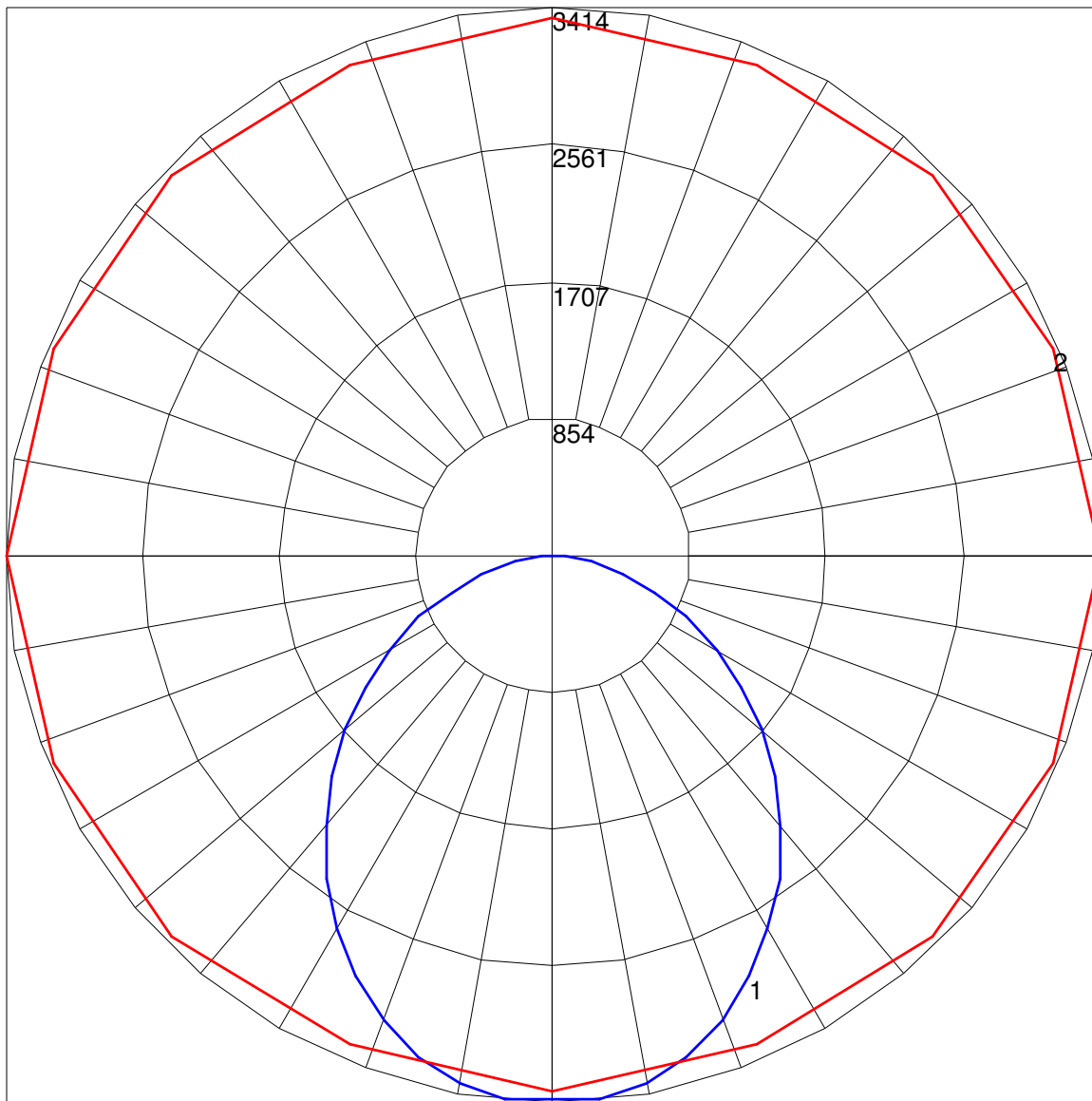
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**COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD**

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	112	112	112	112	109	109	109	109	104	104	104	100	100	100	96	96	96	94
1	102	97	93	89	99	95	91	88	91	88	85	87	85	82	84	82	80	78
2	92	85	78	73	90	83	77	72	79	74	70	76	72	68	74	70	67	65
3	84	74	67	61	82	73	66	60	70	64	59	68	62	58	65	61	57	55
4	77	66	58	52	75	65	57	51	62	56	50	60	54	50	58	53	49	47
5	71	59	51	45	69	58	50	44	56	49	44	54	48	43	53	47	43	41
6	66	53	45	39	64	53	45	39	51	44	39	49	43	38	48	42	38	36
7	61	49	40	35	60	48	40	34	46	39	34	45	39	34	44	38	34	32
8	57	44	36	31	56	44	36	31	43	36	31	41	35	31	40	35	30	29
9	53	41	33	28	52	40	33	28	39	32	28	38	32	28	37	32	27	26
10	50	38	30	25	49	37	30	25	36	30	25	35	29	25	35	29	25	23

POLAR GRAPH



Maximum Candela = 3414.392 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.)