



## IES INDOOR REPORT

PHOTOMETRIC FILENAME : PTR-24-L90-835-SA.IES

### DESCRIPTION INFORMATION (From Photometric File)

IESNA:LM-63-2002

[TEST]GEN from BALLABS TEST NO. 19272.2

[TESTLAB] BUILDING ACOUSTICS & LIGHTING LABORATORIES, INC

[ISSUEDATE] 01-APR-2015

[MANUFAC] WILLIAMS INDOOR

[OTHER] H.E. WILLIAMS, INC - CARTHAGE, MO

[LUMINAIRE] 2-72LED 22"ARRAYS 2x4'RECESSED LUMINAIRE

[MORE] WHITE REFLECTOR w/ ACRYLIC RIBBED CENTER DIFFUSER

[MORE] EVERLINE LED DRIVER #D21CC80UNVTZ-D SET @ 78

[LUMCAT] PTR-24-L90-835-SA-xxx-xxx

[LAMPCAT] M700C835D72N2A

[\_SEARCH\_SOURCETYPE] LED

[\_SEARCH\_APPLICATION] Indoor, Classroom, Commercial, Industrial, Office, Retrofit

[\_SEARCH\_MOUNTING] Recessed

### CHARACTERISTICS

Lumens Per Lamp	N.A. (absolute)
Total Lamp Lumens	N.A. (absolute)
Luminaire Lumens	9289
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	130
Total Luminaire Watts	71.4
Ballast Factor	1.00
CIE Type	Direct
Spacing Criterion (0-180)	1.16
Spacing Criterion (90-270)	1.22
Spacing Criterion (Diagonal)	1.32
Basic Luminous Shape	Rectangular
Luminous Length (0-180)	3.92 ft
Luminous Width (90-270)	1.92 ft
Luminous Height	0.00 ft

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

Angle In Degrees	Average 0-Deg	Average 45-Deg	Average 90-Deg
45	4062	4295	4537
55	3593	3929	4265
65	3235	3817	4373
75	2475	3829	4822
85	1600	4211	4295

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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>	3457.266	3457.266	3457.266	3457.266	3457.266
<b>5</b>	3439.326	3436.763	3439.326	3439.326	3440.607
<b>10</b>	3373.974	3376.536	3380.381	3385.506	3388.069
<b>15</b>	3224.048	3227.892	3236.862	3252.239	3258.646
<b>20</b>	3135.630	3144.600	3165.102	3188.168	3198.419
<b>25</b>	2893.442	2904.975	2948.543	2963.920	2976.734
<b>30</b>	2651.254	2730.702	2815.275	2949.824	2812.712
<b>35</b>	2386.000	2407.784	2461.604	2515.423	2538.489
<b>40</b>	2166.878	2192.506	2257.858	2324.492	2356.528
<b>45</b>	2005.419	2036.173	2120.747	2202.757	2239.919
<b>50</b>	1723.507	1759.387	1850.368	1938.785	1975.947
<b>55</b>	1439.032	1477.475	1573.581	1669.688	1708.130
<b>60</b>	1168.653	1214.784	1317.298	1413.404	1455.691
<b>65</b>	954.656	1009.757	1126.366	1239.131	1290.388
<b>70</b>	699.654	770.132	907.244	1034.104	1084.080
<b>75</b>	447.215	534.351	691.966	820.107	871.364
<b>80</b>	251.158	366.486	530.507	621.488	645.835
<b>85</b>	97.388	199.901	256.284	258.846	261.409
<b>90</b>	0.000	0.000	0.000	0.000	0.000

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**ZONAL LUMEN SUMMARY**

Zone	Lumens	%Lamp	%Fixt
0-20	1247.05	N.A.	13.40
0-30	2614.33	N.A.	28.10
0-40	4177.83	N.A.	45.00
0-60	7202.86	N.A.	77.50
0-80	9033.41	N.A.	97.20
0-90	9289.01	N.A.	100.00
10-90	8962.61	N.A.	96.50
20-40	2930.78	N.A.	31.60
20-50	4543.95	N.A.	48.90
40-70	4130.73	N.A.	44.50
60-80	1830.55	N.A.	19.70
70-80	724.84	N.A.	7.80
80-90	255.60	N.A.	2.80
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	9289.01	N.A.	100.00

Total Luminaire Efficiency = N.A. %

**ZONAL LUMEN SUMMARY**

Zone	Lumens
0-10	326.40
10-20	920.65
20-30	1367.28
30-40	1563.5
40-50	1613.17
50-60	1411.86
60-70	1105.71
70-80	724.84
80-90	255.60
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

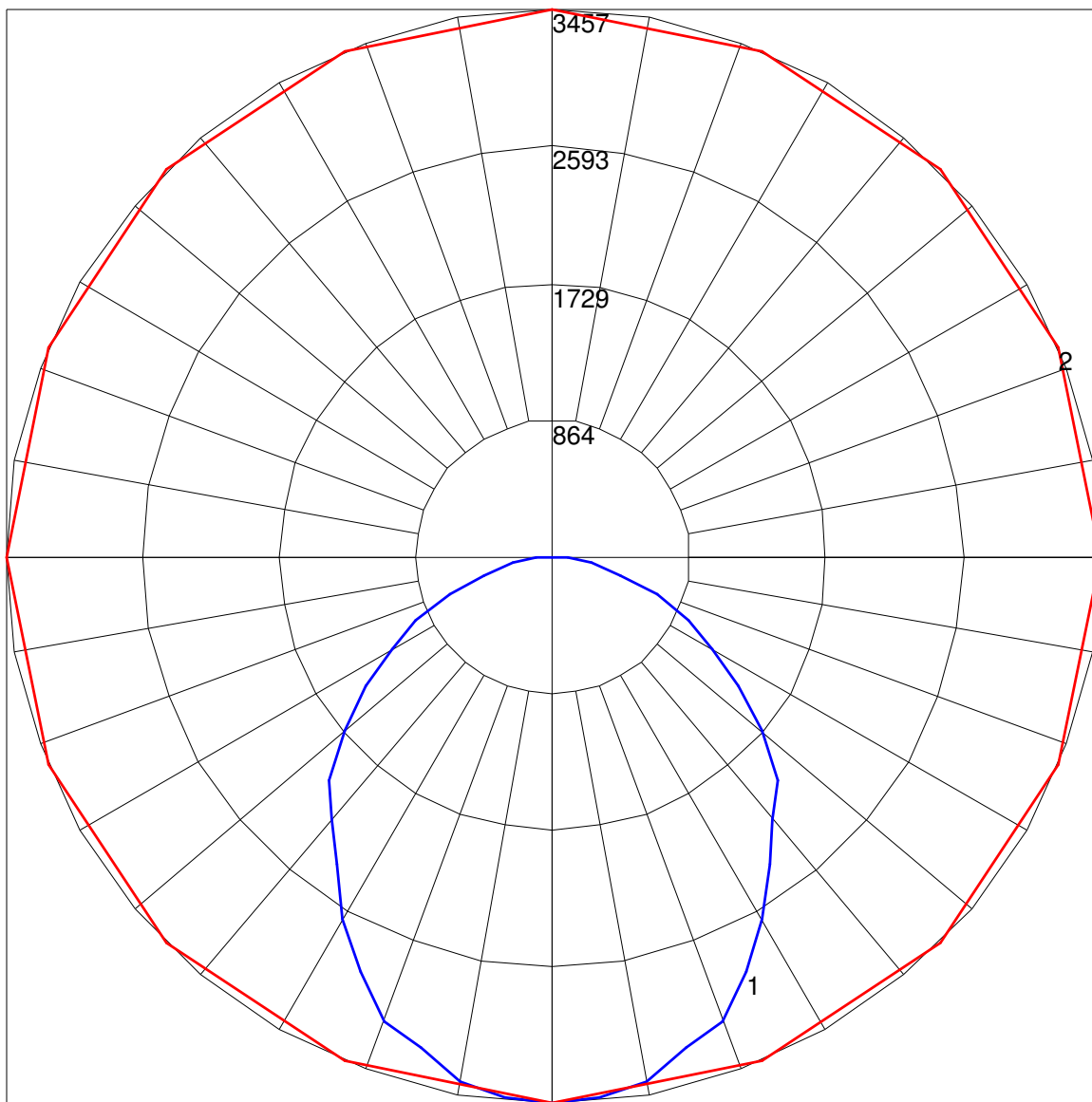
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**COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD**

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	153	153	153	153	149	149	149	149	142	142	142	136	136	136	131	131	131	128
1	139	132	127	122	135	130	124	120	124	120	116	119	115	112	114	112	109	106
2	126	115	106	99	123	113	105	98	108	101	95	104	98	93	100	95	91	88
3	115	101	91	82	112	99	89	81	95	87	80	92	85	78	88	82	77	74
4	105	90	78	70	102	88	77	69	85	76	68	82	74	67	79	72	66	64
5	97	80	69	60	94	79	68	60	76	66	59	74	65	58	71	64	58	55
6	90	72	61	53	87	71	60	52	69	59	52	67	58	51	65	57	51	48
7	83	66	54	47	81	65	54	46	63	53	46	61	52	46	59	51	45	43
8	77	60	49	42	75	59	49	41	57	48	41	56	47	41	54	47	41	38
9	72	55	45	38	71	54	44	37	53	44	37	52	43	37	50	43	37	34
10	68	51	41	34	66	50	41	34	49	40	34	48	40	34	47	39	34	31

POLAR GRAPH



Maximum Candela = 3457.266 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.)