



**IES INDOOR REPORT**  
**PHOTOMETRIC FILENAME : PTS-14-L43-840-RA-XXX-XXX.IES**

**DESCRIPTION INFORMATION (From Photometric File)**

IESNA:LM-63-2002  
 [TEST]GEN FROM BALLABS TEST NO. 19323.0  
 [TESTLAB] BUILDING ACOUSTICS & LIGHTING LABORATORIES, INC  
 [ISSUE DATE] 28-APR-2016  
 [MANUFAC] WILLIAMS INDOOR  
 [OTHER] H.E. WILLIAMS, INC - CARTHAGE, MO  
 [LUMINAIRE] 2-22" LED ARRAYS 1x4' SURFACE LUMINAIRE  
 [MORE] WHITE REFLECTOR w/WHITE RIBBED ACRYLIC LENS  
 [MORE] EVERLINE DRIVER #D10CC55UNVTZ-C  
 [LUMCAT] PTS-14-L43-840-RA-xxx-xxx  
 [LAMPCAT] HLM 80 CRI 4000K CCT  
 [\_SEARCH\_SOURCETYPE] LED  
 [\_SEARCH\_APPLICATION] Indoor, Architectural, Office, Direct  
 [\_SEARCH\_MOUNTING] Surface

**CHARACTERISTICS**

Lumens Per Lamp	N.A. (absolute)
Total Lamp Lumens	N.A. (absolute)
Luminaire Lumens	4417
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	116
Total Luminaire Watts	38
Ballast Factor	1.00
CIE Type	Direct
Spacing Criterion (0-180)	1.26
Spacing Criterion (90-270)	1.26
Spacing Criterion (Diagonal)	1.36
Basic Luminous Shape	Rectangular
Luminous Length (0-180)	3.92 ft
Luminous Width (90-270)	0.94 ft
Luminous Height	0.00 ft



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

Angle In Degrees	Average 0-Deg	Average 45-Deg	Average 90-Deg
45	4134	4318	4381
55	3648	4009	4179
65	3175	3763	3861
75	2307	3232	3369
85	1051	1730	2035

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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>	1609.671	1609.671	1609.671	1609.671	1609.671
<b>5</b>	1646.024	1633.906	1627.847	1612.700	1603.612
<b>10</b>	1617.749	1608.661	1605.631	1589.474	1581.395
<b>15</b>	1573.317	1565.238	1569.277	1550.091	1550.091
<b>20</b>	1509.697	1506.668	1513.737	1495.560	1501.619
<b>25</b>	1439.009	1431.940	1446.078	1432.950	1428.911
<b>30</b>	1356.203	1343.075	1363.272	1356.203	1354.183
<b>35</b>	1252.190	1242.092	1268.348	1263.299	1269.358
<b>40</b>	1131.011	1128.991	1157.266	1161.306	1156.256
<b>45</b>	998.723	1001.752	1043.155	1052.244	1058.303
<b>50</b>	858.356	873.504	916.927	939.143	939.143
<b>55</b>	714.960	743.236	785.648	829.071	818.973
<b>60</b>	585.702	609.938	660.429	695.774	690.724
<b>65</b>	458.463	479.670	543.289	568.535	557.427
<b>70</b>	327.185	366.569	419.080	431.198	426.149
<b>75</b>	203.986	256.497	285.782	297.900	297.900
<b>80</b>	104.013	152.484	163.593	172.681	165.612
<b>85</b>	31.305	59.580	51.501	56.551	60.590
<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	594.41	N.A.	13.50
0-30	1256.1	N.A.	28.40
0-40	2042.38	N.A.	46.20
0-60	3535.76	N.A.	80.00
0-80	4345.53	N.A.	98.40
0-90	4417.02	N.A.	100.00
10-90	4262.96	N.A.	96.50
20-40	1447.97	N.A.	32.80
20-50	2243.17	N.A.	50.80
40-70	2013.02	N.A.	45.60
60-80	809.78	N.A.	18.30
70-80	290.13	N.A.	6.60
80-90	71.49	N.A.	1.60
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	4417.02	N.A.	100.00

Total Luminaire Efficiency = N.A. %

**ZONAL LUMEN SUMMARY**

Zone	Lumens
0-10	154.06
10-20	440.35
20-30	661.68
30-40	786.29
40-50	795.20
50-60	698.17
60-70	519.65
70-80	290.13
80-90	71.49
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

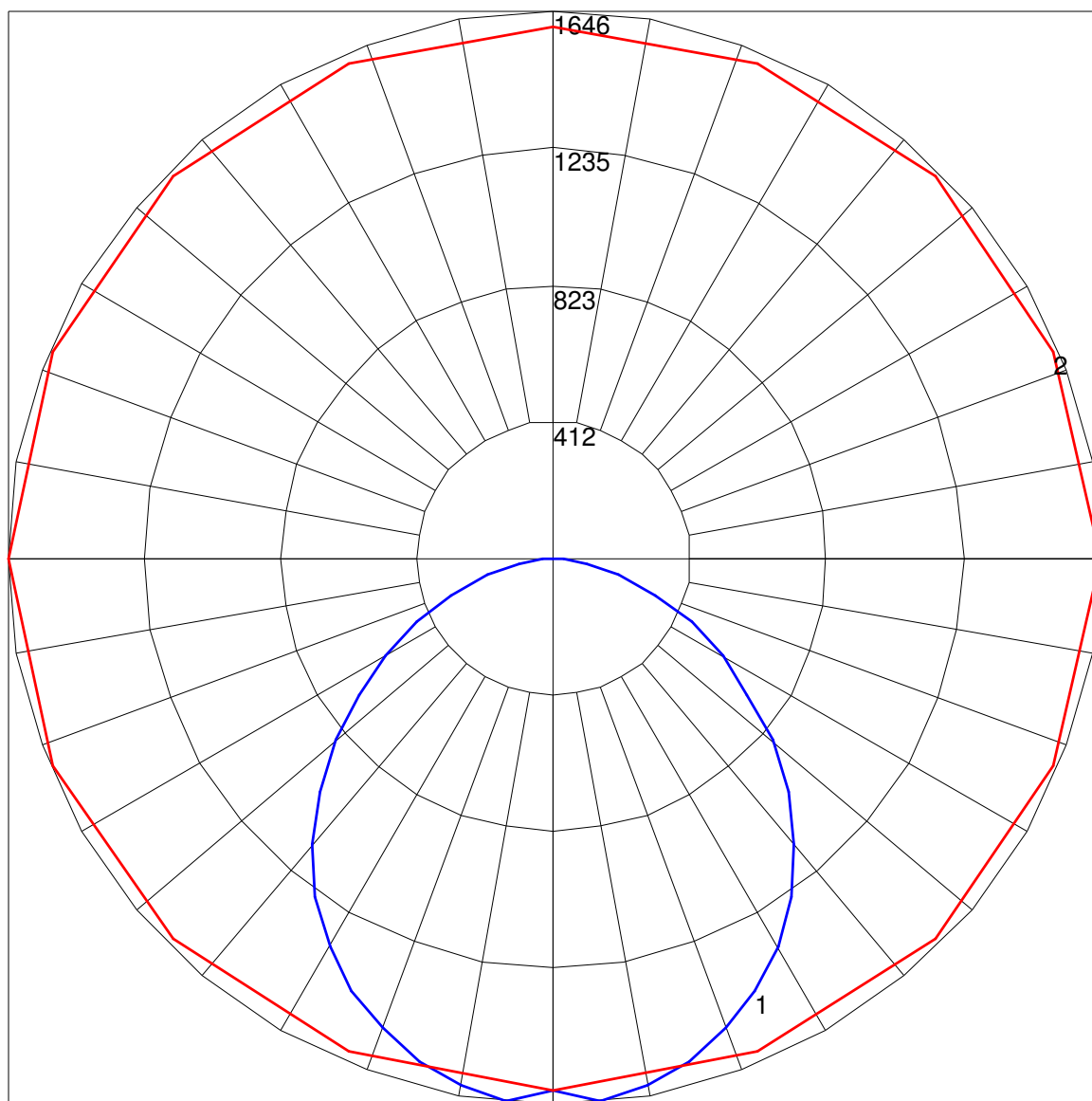
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**COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD**

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	109	104	100	96	106	102	98	95	98	95	92	94	91	89	90	88	86	84
2	99	91	84	79	97	89	83	78	86	80	76	82	78	74	79	76	73	70
3	91	80	72	66	88	78	71	65	76	69	64	73	67	63	70	66	62	59
4	83	71	62	56	81	70	62	55	67	60	55	65	59	54	63	57	53	51
5	76	64	55	48	74	62	54	48	60	53	47	58	52	47	56	51	46	44
6	71	57	48	42	69	56	48	42	54	47	41	53	46	41	51	45	41	39
7	65	52	43	37	64	51	43	37	50	42	37	48	41	36	47	41	36	34
8	61	47	39	33	59	47	39	33	45	38	33	44	38	33	43	37	32	31
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 = 1646.024 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.)