



## IES INDOOR REPORT

PHOTOMETRIC FILENAME : PTS-22-L38-835-SA.IES

### DESCRIPTION INFORMATION (From Photometric File)

IESNA:LM-63-2002  
 [TEST]GEN from BALLABS TEST NO. 20789.0  
 [TESTLAB] BUILDING ACOUSTICS & LIGHTING LABORATORIES, INC  
 [ISSUE DATE] 30-APR-2019  
 [MANUFAC] WILLIAMS INDOOR  
 [OTHER] H.E. WILLIAMS, INC - CARTHAGE, MO  
 [LUMINAIRE] 1-84 LED 22"ARRAY 2x2 LUMINAIRE  
 [MORE] WHITE REFLECTOR w/FROST SQUARED RIBBED LENS  
 [MORE] ADVANCE #C1042C092V045CNN1  
 [LUMCAT] PTS-22-L38-835-SA-DIM-UNV  
 [LAMPCAT] HLM 80 CRI 3500K CCT

### CHARACTERISTICS

Lumens Per Lamp	N.A. (absolute)
Total Lamp Lumens	N.A. (absolute)
Luminaire Lumens	3918
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	120
Total Luminaire Watts	32.6
Ballast Factor	1.00
CIE Type	Direct
Spacing Criterion (0-180)	1.18
Spacing Criterion (90-270)	1.14
Spacing Criterion (Diagonal)	1.28
Basic Luminous Shape	Rectangular
Luminous Length (0-180)	1.92 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	3503	3451	3402
55	3148	3176	3264
65	2755	3005	3374
75	2147	3025	3911
85	1117	2816	3794

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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>	1552.888	1552.888	1552.888	1552.888	1552.888
<b>5</b>	1552.888	1542.869	1536.428	1537.144	1535.713
<b>10</b>	1519.969	1512.097	1505.657	1502.794	1500.648
<b>15</b>	1466.298	1460.573	1453.417	1447.692	1446.261
<b>20</b>	1405.471	1396.168	1378.993	1375.415	1371.837
<b>25</b>	1316.734	1313.156	1293.119	1283.100	1276.660
<b>30</b>	1215.832	1210.107	1196.511	1180.767	1170.033
<b>35</b>	1102.049	1103.480	1086.306	1070.562	1064.122
<b>40</b>	985.404	988.982	971.807	961.073	956.779
<b>45</b>	873.768	871.621	860.887	857.308	848.721
<b>50</b>	754.975	757.122	747.104	755.691	748.535
<b>55</b>	636.899	643.339	642.624	660.514	660.514
<b>60</b>	520.969	525.262	543.868	568.199	578.934
<b>65</b>	410.764	421.498	447.976	483.041	503.078
<b>70</b>	299.128	317.734	362.102	407.186	431.517
<b>75</b>	196.079	228.997	276.228	328.468	357.093
<b>80</b>	103.764	140.976	193.932	245.456	271.934
<b>85</b>	34.350	57.249	86.590	105.911	116.645
<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	555.72	N.A.	14.20
0-30	1152.26	N.A.	29.40
0-40	1831.69	N.A.	46.70
0-60	3079.25	N.A.	78.60
0-80	3821.75	N.A.	97.50
0-90	3918.29	N.A.	100.00
10-90	3772.28	N.A.	96.30
20-40	1275.96	N.A.	32.60
20-50	1942.39	N.A.	49.60
40-70	1696.94	N.A.	43.30
60-80	742.49	N.A.	18.90
70-80	293.12	N.A.	7.50
80-90	96.54	N.A.	2.50
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	3918.29	N.A.	100.00

Total Luminaire Efficiency = N.A. %

**ZONAL LUMEN SUMMARY**

Zone	Lumens
0-10	146.01
10-20	409.71
20-30	596.54
30-40	679.43
40-50	666.42
50-60	581.14
60-70	449.38
70-80	293.12
80-90	96.54
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

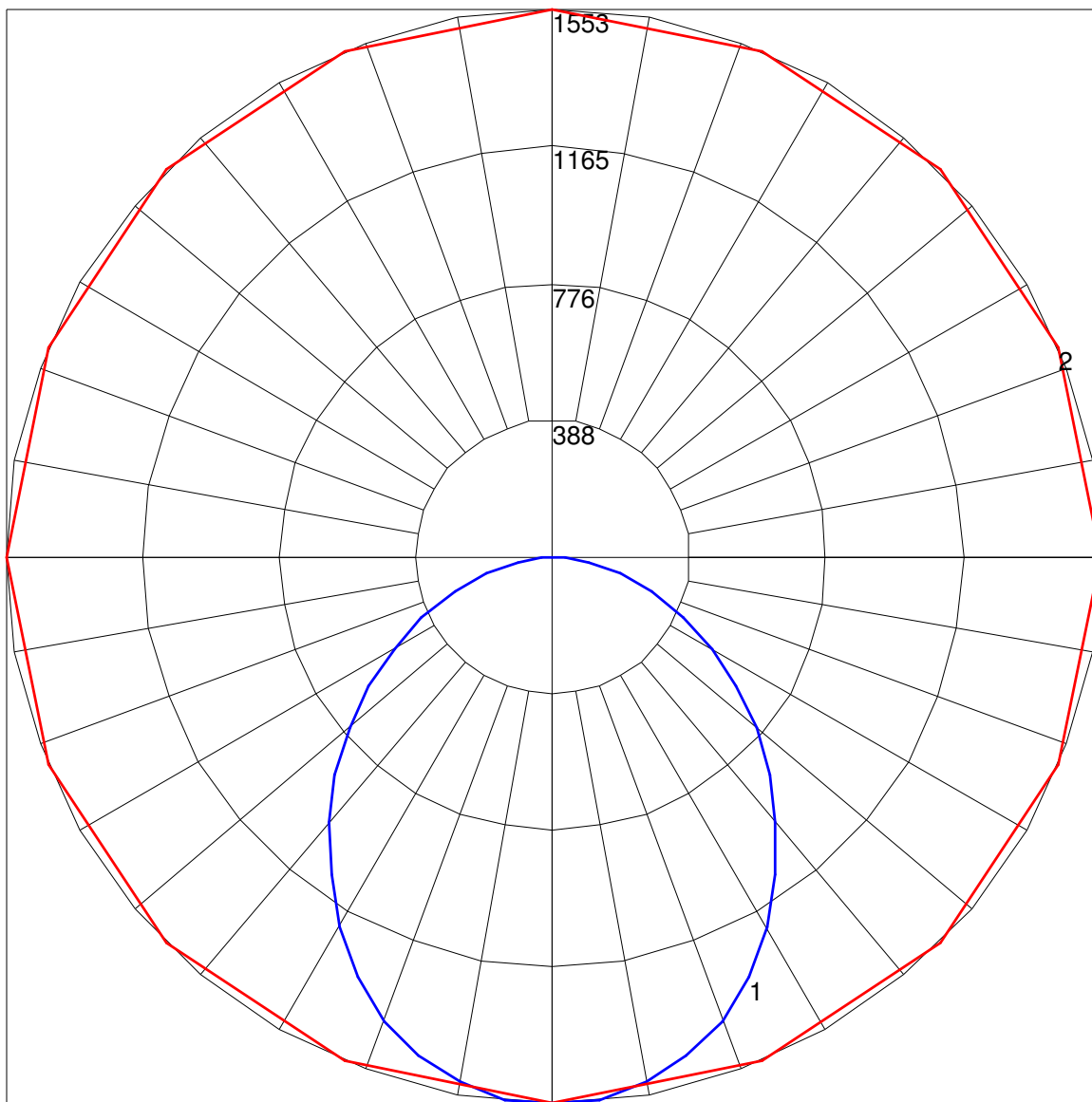
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**COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD**

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	96	96	96	96	94	94	94	94	90	90	90	86	86	86	82	82	82	81
1	88	84	80	77	86	82	79	76	79	76	73	75	73	71	72	71	69	67
2	80	73	68	63	78	72	67	62	69	64	61	66	62	59	64	61	58	56
3	73	64	58	53	71	63	57	52	61	55	51	58	54	50	56	53	49	48
4	67	57	50	45	65	56	50	44	54	48	44	52	47	43	50	46	43	41
5	62	51	44	39	60	50	44	38	49	43	38	47	42	38	46	41	37	36
6	57	46	39	34	55	46	39	34	44	38	34	43	37	33	41	37	33	31
7	53	42	35	30	52	41	35	30	40	34	30	39	34	30	38	33	29	28
8	49	39	32	27	48	38	31	27	37	31	27	36	31	27	35	30	26	25
9	46	35	29	24	45	35	29	24	34	28	24	33	28	24	32	27	24	22
10	43	33	26	22	42	32	26	22	32	26	22	31	26	22	30	25	22	20

POLAR GRAPH



Maximum Candela = 1552.888 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.)