



IES INDOOR REPORT
PHOTOMETRIC FILENAME : PTS-24-L49-835-RA-TBOX.IES

DESCRIPTION INFORMATION (From Photometric File)

IESNA:LM-63-2002
 [TEST]GEN from BALLABS TEST NO. 19535.0
 [TESTLAB] BUILDING ACOUSTICS & LIGHTING LABORATORIES, INC
 [ISSUE DATE] 05-OCT-2016
 [MANUFAC] WILLIAMS INDOOR
 [OTHER] H.E. WILLIAMS, INC - CARTHAGE, MO
 [LUMINAIRE] 2-56 LED 22"ARRAYS 2x4'RECESSED LUMINAIRE
 [MORE] WHITE REFLECTOR w/CENTER FROSTED RIBBED ACRYLIC LENS
 [MORE] EVERLINE #D10CC55UNVTZ-C @ 1030mA
 [LUMCAT] PTS-24-L49-835-RA-xxx-xxx
 [LAMPCAT] M10CC840D56N2A

CHARACTERISTICS

Lumens Per Lamp	N.A. (absolute)
Total Lamp Lumens	N.A. (absolute)
Luminaire Lumens	4928
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	132
Total Luminaire Watts	37.2
Ballast Factor	1.00
CIE Type	Direct
Spacing Criterion (0-180)	1.16
Spacing Criterion (90-270)	1.20
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	2121	2290	2424
55	1841	2081	2282
65	1621	2002	2307
75	1226	1950	2471
85	726	2602	3053

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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>
0	1860.707	1860.707	1860.707	1860.707	1860.707
5	1851.541	1851.541	1851.541	1852.375	1852.375
10	1819.877	1819.877	1821.543	1824.876	1826.543
15	1730.716	1733.216	1738.216	1745.715	1749.048
20	1696.552	1701.551	1714.051	1725.717	1729.050
25	1531.563	1539.062	1557.395	1573.227	1579.893
30	1414.071	1425.737	1449.069	1474.900	1483.233
35	1287.413	1303.245	1335.743	1367.407	1380.740
40	1154.922	1174.920	1219.084	1257.415	1271.581
45	1047.429	1074.094	1130.757	1179.087	1196.586
50	893.273	920.771	983.267	1034.930	1056.595
55	737.450	765.781	833.277	893.273	914.105
60	594.960	626.624	693.286	754.116	775.781
65	478.301	513.299	590.793	658.289	680.787
70	346.643	389.140	470.801	539.963	564.128
75	221.652	268.315	352.476	420.805	446.636
80	122.492	181.654	269.982	337.477	360.809
85	44.164	102.493	158.323	181.654	185.821
90	0.000	0.000	0.000	0.000	0.000

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ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixt
0-20	671.65	N.A.	13.60
0-30	1395.01	N.A.	28.30
0-40	2230.74	N.A.	45.30
0-60	3834.16	N.A.	77.80
0-80	4782.00	N.A.	97.00
0-90	4928.05	N.A.	100.00
10-90	4752.22	N.A.	96.40
20-40	1559.09	N.A.	31.60
20-50	2418.19	N.A.	49.10
40-70	2179.15	N.A.	44.20
60-80	947.84	N.A.	19.20
70-80	372.11	N.A.	7.60
80-90	146.05	N.A.	3.00
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	4928.05	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	175.82
10-20	495.83
20-30	723.35
30-40	835.73
40-50	859.10
50-60	744.32
60-70	575.73
70-80	372.11
80-90	146.05
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	103	99	95	106	101	97	93	97	93	90	93	90	88	89	87	85	83
2	98	90	83	77	96	88	82	76	85	79	74	81	77	73	78	74	71	69
3	90	79	71	64	87	78	70	64	75	68	63	72	66	61	69	64	60	58
4	82	70	61	55	80	69	61	54	66	59	53	64	58	53	62	56	52	50
5	76	63	54	47	74	62	53	47	60	52	46	58	51	46	56	50	45	43
6	70	57	48	41	68	56	47	41	54	46	41	52	45	40	51	45	40	38
7	65	51	43	37	63	51	42	36	49	42	36	48	41	36	46	40	36	34
8	61	47	39	33	59	46	38	33	45	38	32	44	37	32	43	36	32	30
9	57	43	35	29	55	43	35	29	41	34	29	40	34	29	39	33	29	27
10	53	40	32	27	52	39	32	27	38	31	27	37	31	26	37	31	26	25

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UGR TABLE - CORRECTED

Reflectances

Ceiling Cavity	70	70	50	50	30	70	70	50	50	30
Walls	50	30	50	30	30	50	30	50	30	30
Floor Cavity	20	20	20	20	20	20	20	20	20	20

Room Size UGR Viewed Crosswise

X=2H	Y=2H	13.7	15.3	14.0	15.6	15.9	14.9	16.6	15.3	16.9	17.2
	3H	15.3	16.8	15.7	17.1	17.5	17.2	18.7	17.5	19.0	19.3
	4H	15.9	17.3	16.3	17.6	18.0	18.1	19.5	18.5	19.9	20.3
	6H	16.2	17.5	16.6	17.9	18.3	19.1	20.5	19.6	20.8	21.2
	8H	16.3	17.6	16.8	18.0	18.4	19.6	20.8	20.0	21.2	21.6
	12H	16.4	17.6	16.8	18.0	18.4	19.9	21.1	20.4	21.5	21.9

UGR Viewed Endwise

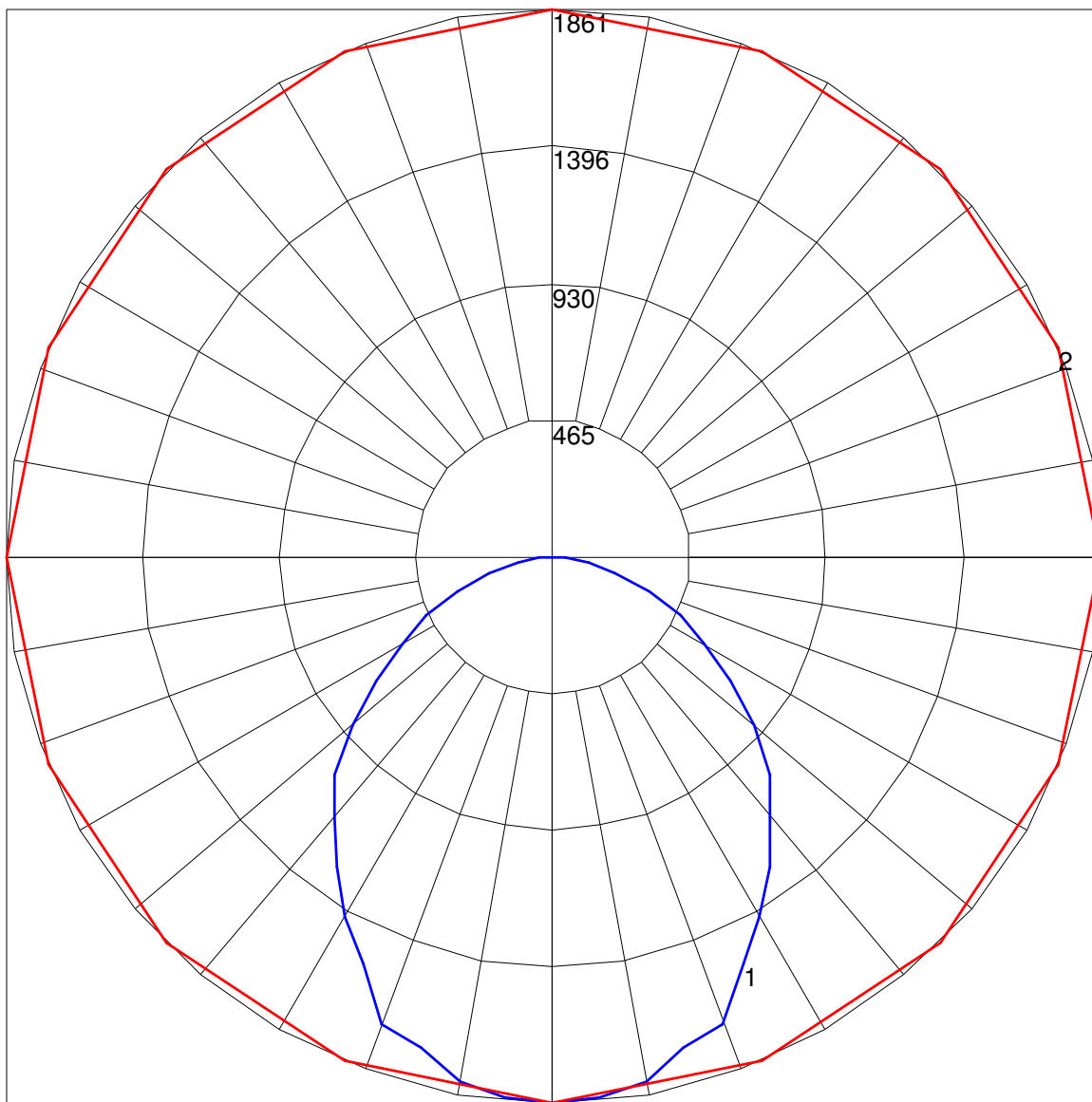
4H	2H	14.5	15.9	14.9	16.3	16.7	15.5	16.9	15.9	17.3	17.6
	3H	16.4	17.6	16.8	18.0	18.4	18.0	19.2	18.4	19.6	20.0
	4H	17.1	18.1	17.5	18.6	19.0	19.1	20.2	19.6	20.6	21.1
	6H	17.6	18.5	18.0	19.0	19.4	20.4	21.3	20.8	21.7	22.2
	8H	17.7	18.6	18.2	19.1	19.5	20.9	21.8	21.3	22.2	22.7
	12H	17.9	18.7	18.4	19.1	19.6	21.3	22.1	21.8	22.6	23.0

8H	4H	17.7	18.6	18.1	19.0	19.5	19.4	20.3	19.9	20.8	21.2
	6H	18.4	19.1	18.9	19.6	20.1	20.9	21.6	21.4	22.1	22.6
	8H	18.7	19.3	19.2	19.9	20.3	21.5	22.2	22.0	22.7	23.2
	12H	18.9	19.5	19.4	20.0	20.5	22.1	22.7	22.6	23.2	23.7

12H	4H	17.8	18.6	18.3	19.1	19.6	19.5	20.3	20.0	20.7	21.2
	6H	18.7	19.3	19.2	19.8	20.3	21.0	21.6	21.5	22.1	22.6
	8H	19.0	19.6	19.6	20.1	20.7	21.7	22.3	22.2	22.8	23.3

Maximum UGR = 23.7

POLAR GRAPH



Maximum Candela = 1860.707 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.)