



IES INDOOR REPORT
PHOTOMETRIC FILENAME : PTS-14-L45-835-RA-TBOX.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'RECESSED LUMINAIRE
 [MORE] WHITE REFLECTOR w/WHITE RIBBED ACRYLIC LENS
 [MORE] EVERLINE DRIVER #D10CC55UNVTZ-C LABELED 871mA
 [LUMCAT] PTS-14-L45-835-RA-TBOX
 [LAMPCAT] M10CC835D56N2A
 [_SEARCH_SOURCETYPE] LED
 [_SEARCH_APPLICATION] Indoor, Architectural, Office, Direct
 [_SEARCH_MOUNTING] Recessed

CHARACTERISTICS

Lumens Per Lamp	N.A. (absolute)
Total Lamp Lumens	N.A. (absolute)
Luminaire Lumens	4526
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	134
Total Luminaire Watts	33.7
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	4236	4424	4489
55	3738	4108	4282
65	3253	3855	3956
75	2364	3312	3452
85	1077	1772	2085

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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	1649.393	1649.393	1649.393	1649.393	1649.393
5	1686.644	1674.227	1668.019	1652.497	1643.185
10	1657.671	1648.358	1645.254	1628.698	1620.420
15	1612.142	1603.864	1608.003	1588.343	1588.343
20	1546.953	1543.849	1551.092	1532.466	1538.675
25	1474.520	1467.277	1481.764	1468.312	1464.173
30	1389.671	1376.219	1396.914	1389.671	1387.601
35	1283.091	1272.744	1299.647	1294.474	1300.682
40	1158.921	1156.852	1185.825	1189.964	1184.790
45	1023.369	1026.473	1068.898	1078.211	1084.419
50	879.538	895.060	939.554	962.318	962.318
55	732.604	761.577	805.036	849.531	839.183
60	600.156	624.990	676.727	712.943	707.770
65	469.777	491.507	556.696	582.565	571.183
70	335.259	375.615	429.422	441.839	436.665
75	209.020	262.827	292.835	305.252	305.252
80	106.579	156.247	167.630	176.942	169.699
85	32.077	61.050	52.772	57.946	62.085
90	0.000	0.000	0.000	0.000	0.000

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ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixt
0-20	609.08	N.A.	13.50
0-30	1287.1	N.A.	28.40
0-40	2092.79	N.A.	46.20
0-60	3623.01	N.A.	80.00
0-80	4452.77	N.A.	98.40
0-90	4526.02	N.A.	100.00
10-90	4368.16	N.A.	96.50
20-40	1483.7	N.A.	32.80
20-50	2298.53	N.A.	50.80
40-70	2062.69	N.A.	45.60
60-80	829.76	N.A.	18.30
70-80	297.29	N.A.	6.60
80-90	73.25	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	4526.02	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	157.86
10-20	451.22
20-30	678.01
30-40	805.69
40-50	814.82
50-60	715.40
60-70	532.47
70-80	297.29
80-90	73.25
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

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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	16.5	18.1	16.8	18.4	18.7	17.3	18.9	17.7	19.3	19.6
	3H	18.0	19.5	18.4	19.8	20.2	19.1	20.6	19.5	20.9	21.3
	4H	18.5	19.9	18.9	20.3	20.6	19.8	21.1	20.2	21.5	21.9
	6H	18.8	20.1	19.3	20.5	20.9	20.2	21.5	20.6	21.8	22.2
	8H	18.9	20.1	19.3	20.5	20.9	20.3	21.5	20.7	21.9	22.3
	12H	18.9	20.1	19.4	20.5	20.9	20.4	21.6	20.8	21.9	22.4

UGR Viewed Endwise

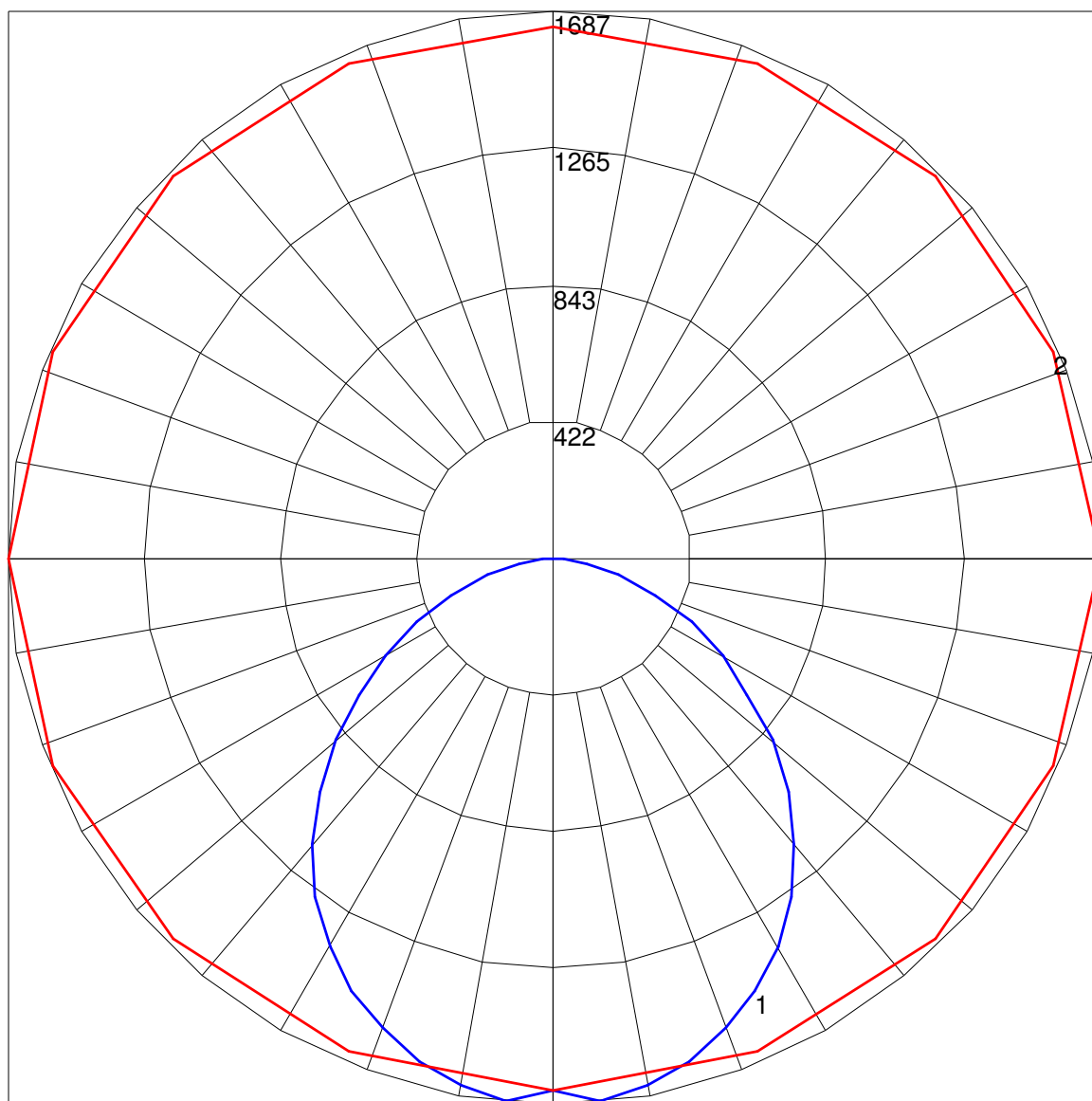
4H	2H	17.2	18.6	17.6	18.9	19.3	17.9	19.3	18.3	19.6	20.0
	3H	19.0	20.2	19.4	20.6	21.0	19.9	21.1	20.3	21.5	21.9
	4H	19.7	20.7	20.1	21.1	21.6	20.7	21.7	21.1	22.2	22.6
	6H	20.1	21.0	20.6	21.5	21.9	21.3	22.2	21.7	22.6	23.1
	8H	20.2	21.1	20.7	21.5	22.0	21.4	22.3	21.9	22.7	23.2
	12H	20.3	21.1	20.8	21.5	22.0	21.5	22.3	22.0	22.8	23.3

8H	4H	20.1	20.9	20.5	21.4	21.8	21.0	21.8	21.4	22.3	22.7
	6H	20.7	21.4	21.1	21.8	22.3	21.7	22.4	22.2	22.9	23.3
	8H	20.8	21.5	21.3	22.0	22.5	21.9	22.5	22.4	23.0	23.5
	12H	21.0	21.5	21.5	22.0	22.6	22.0	22.6	22.5	23.1	23.7

12H	4H	20.1	20.9	20.6	21.4	21.8	21.0	21.8	21.5	22.2	22.7
	6H	20.7	21.4	21.2	21.8	22.4	21.7	22.3	22.2	22.8	23.3
	8H	21.0	21.5	21.5	22.0	22.6	22.0	22.5	22.5	23.0	23.6

Maximum UGR = 23.7

POLAR GRAPH



Maximum Candela = 1686.644 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.)