



IES INDOOR REPORT

PHOTOMETRIC FILENAME : PTS-24-L38-835-RA-(L30)-DIM-UNV_.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] 03-01-2022
 [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-L38-835-RA-(L30)-DIM-UNV
 [LAMPCAT] M10CC840D56N2A

CHARACTERISTICS

Lumens Per Lamp	N.A. (absolute)
Total Lamp Lumens	N.A. (absolute)
Luminaire Lumens	3132
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	129
Total Luminaire Watts	24.3
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	1348	1456	1540
55	1170	1322	1451
65	1030	1272	1466
75	779	1240	1571
85	461	1653	1941

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	<u>0.0</u>	<u>22.5</u>	<u>45.0</u>	<u>67.5</u>	<u>90.0</u>
0	1182.576	1182.576	1182.576	1182.576	1182.576
5	1176.751	1176.751	1176.751	1177.280	1177.280
10	1156.626	1156.626	1157.685	1159.804	1160.863
15	1099.960	1101.549	1104.726	1109.493	1111.611
20	1078.247	1081.424	1089.368	1096.783	1098.901
25	973.388	978.154	989.805	999.867	1004.104
30	898.716	906.130	920.958	937.376	942.672
35	818.218	828.280	848.934	869.058	877.532
40	734.013	746.723	774.791	799.152	808.156
45	665.696	682.643	718.655	749.371	760.492
50	567.721	585.198	624.917	657.752	671.521
55	468.688	486.694	529.591	567.721	580.961
60	378.128	398.252	440.620	479.280	493.049
65	303.985	326.228	375.480	418.377	432.676
70	220.310	247.319	299.219	343.175	358.533
75	140.871	170.528	224.017	267.443	283.861
80	77.850	115.451	171.587	214.484	229.313
85	28.068	65.140	100.622	115.451	118.099
90	0.000	0.000	0.000	0.000	0.000

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Zone	Lumens	%Lamp	%Fixt
0-20	426.87	N.A.	13.60
0-30	886.60	N.A.	28.30
0-40	1417.75	N.A.	45.30
0-60	2436.81	N.A.	77.80
0-80	3039.21	N.A.	97.00
0-90	3132.03	N.A.	100.00
10-90	3020.29	N.A.	96.40
20-40	990.88	N.A.	31.60
20-50	1536.88	N.A.	49.10
40-70	1384.96	N.A.	44.20
60-80	602.40	N.A.	19.20
70-80	236.50	N.A.	7.60
80-90	92.82	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	3132.03	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	111.74
10-20	315.13
20-30	459.73
30-40	531.15
40-50	546.00
50-60	473.05
60-70	365.90
70-80	236.50
80-90	92.82
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

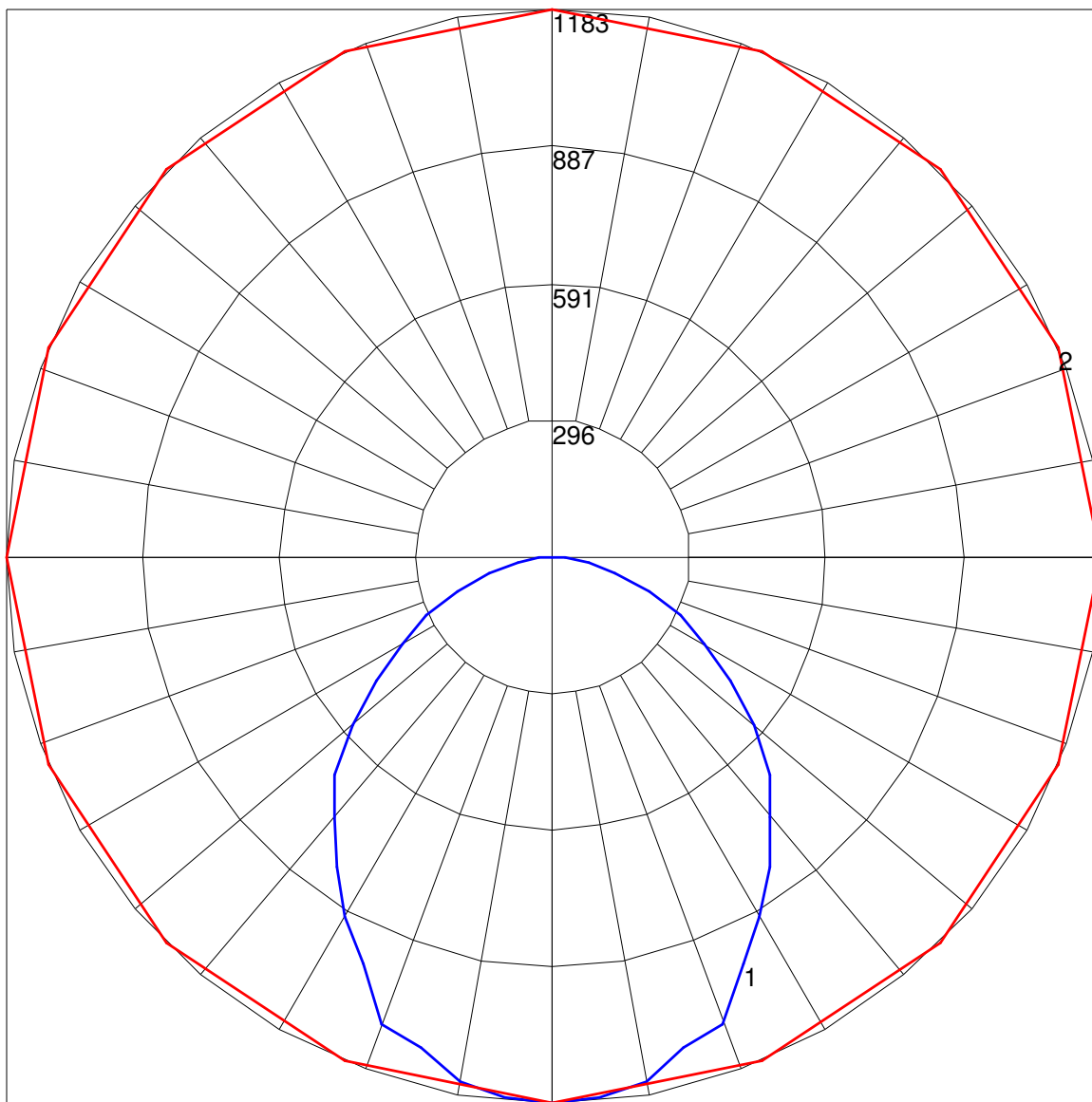
Reflectances

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					UGR Viewed Endwise				
X=2H	Y=2H	12.2	13.8	12.5	14.1	14.4	13.4	15.1	13.8	15.4	15.7
	3H	13.8	15.3	14.2	15.6	16.0	15.7	17.2	16.0	17.5	17.8
	4H	14.4	15.8	14.8	16.1	16.5	16.6	18.0	17.0	18.4	18.8
	6H	14.7	16.0	15.1	16.4	16.8	17.6	19.0	18.1	19.3	19.7
	8H	14.8	16.1	15.3	16.5	16.9	18.1	19.3	18.5	19.7	20.1
	12H	14.9	16.1	15.3	16.5	16.9	18.4	19.6	18.9	20.0	20.4
4H	2H	13.0	14.4	13.4	14.8	15.2	14.0	15.4	14.4	15.8	16.1
	3H	14.9	16.1	15.3	16.5	16.9	16.5	17.7	16.9	18.1	18.5
	4H	15.6	16.6	16.0	17.1	17.5	17.6	18.7	18.1	19.1	19.6
	6H	16.1	17.0	16.5	17.5	17.9	18.9	19.8	19.3	20.2	20.7
	8H	16.2	17.1	16.7	17.6	18.0	19.4	20.3	19.8	20.7	21.2
	12H	16.4	17.2	16.9	17.6	18.1	19.8	20.6	20.3	21.1	21.5
8H	4H	16.2	17.1	16.6	17.5	18.0	17.9	18.8	18.4	19.3	19.7
	6H	16.9	17.6	17.4	18.1	18.6	19.4	20.1	19.9	20.6	21.1
	8H	17.2	17.8	17.7	18.4	18.8	20.0	20.7	20.5	21.2	21.7
	12H	17.4	18.0	17.9	18.5	19.0	20.6	21.2	21.1	21.7	22.2
12H	4H	16.3	17.1	16.8	17.6	18.1	18.0	18.8	18.5	19.2	19.7
	6H	17.2	17.8	17.7	18.3	18.8	19.5	20.1	20.0	20.6	21.1
	8H	17.5	18.1	18.1	18.6	19.2	20.2	20.8	20.7	21.3	21.8

Maximum UGR = 22.2

POLAR GRAPH



Maximum Candela = 1182.576 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.)