



IES INDOOR REPORT

PHOTOMETRIC FILENAME : PTS-22-L47-830-RA-DIM-UNV_.IES

DESCRIPTION INFORMATION (From Photometric File)

IESNA:LM-63-2002
 [TEST]GEN from BALLABS TEST NO. 19562.0
 [TESTLAB] BUILDING ACOUSTICS & LIGHTING LABORATORIES, INC
 [ISSUEDATE] 01-23-23
 [MANUFAC] WILLIAMS INDOOR
 [OTHER] H.E. WILLIAMS, INC - CARTHAGE, MO
 [LUMINAIRE] 1-22" LED ARRAY 2x2'RECESSED LUMINAIRE
 [MORE] WHITE REFLECTOR w/CENTER FROSTED RIBBED ACRYLIC LENS
 [MORE] EVERLINE #D10CC55UNVTZ-C @ 76 SETPOINT
 [LUMCAT] PTS-22-L47-830-RA-DIM-UNV
 [LAMPCAT] M700C840D72N2A
 [_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	4461
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	117
Total Luminaire Watts	38.1
Ballast Factor	1.00
CIE Type	Direct
Spacing Criterion (0-180)	1.24
Spacing Criterion (90-270)	1.24
Spacing Criterion (Diagonal)	1.34
Basic Luminous Shape	Rectangular
Luminous Length (0-180)	1.92 ft
Luminous Width (90-270)	1.93 ft
Luminous Height	0.00 ft

LUMINANCE DATA (cd/sq.m)

Angle In Degrees	Average 0-Deg	Average 45-Deg	Average 90-Deg
45	4191	4347	4489
55	3544	3904	4166
65	2709	3388	3767
75	1883	3005	3714
85	1072	2451	3064

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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	1704.802	1704.802	1704.802	1704.802	1704.802
5	1710.535	1700.217	1697.924	1692.191	1692.191
10	1687.605	1677.287	1676.141	1670.408	1669.262
15	1647.479	1636.014	1634.868	1632.575	1631.428
20	1590.155	1579.837	1578.691	1579.837	1579.837
25	1509.902	1499.584	1506.463	1511.049	1506.463
30	1411.306	1406.720	1413.599	1421.624	1415.892
35	1297.805	1296.659	1311.563	1317.295	1323.028
40	1167.108	1167.108	1192.330	1202.648	1211.820
45	1018.066	1018.066	1055.900	1079.976	1090.294
50	861.000	862.146	912.591	944.692	959.596
55	698.201	710.812	769.282	803.676	820.873
60	538.841	564.064	622.534	660.367	678.711
65	393.240	426.487	491.836	533.109	546.867
70	264.835	306.108	371.457	413.876	429.927
75	167.385	207.511	267.128	309.547	330.184
80	90.571	124.965	177.703	207.511	228.148
85	32.101	56.177	73.374	73.374	91.718
90	0.000	0.000	0.000	0.000	0.000

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ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixt
0-20	622.87	N.A.	14.00
0-30	1316.21	N.A.	29.50
0-40	2133.76	N.A.	47.80
0-60	3624.94	N.A.	81.30
0-80	4379.09	N.A.	98.20
0-90	4460.69	N.A.	100.00
10-90	4299.33	N.A.	96.40
20-40	1510.89	N.A.	33.90
20-50	2321.56	N.A.	52.00
40-70	1969.93	N.A.	44.20
60-80	754.15	N.A.	16.90
70-80	275.41	N.A.	6.20
80-90	81.60	N.A.	1.80
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	4460.69	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	161.36
10-20	461.51
20-30	693.34
30-40	817.55
40-50	810.68
50-60	680.51
60-70	478.74
70-80	275.41
80-90	81.60
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	97	106	102	98	95	98	95	92	94	91	89	90	88	86	84
2	99	91	85	79	97	90	83	78	86	81	76	83	79	75	80	76	73	71
3	91	81	73	66	89	79	72	66	76	70	65	73	68	63	71	66	62	60
4	83	72	63	57	81	70	62	56	68	61	55	66	60	55	63	58	54	52
5	77	64	55	49	75	63	55	49	61	54	48	59	53	48	57	52	47	45
6	71	58	49	43	69	57	49	43	55	48	42	54	47	42	52	46	42	40
7	66	53	44	38	64	52	44	38	50	43	38	49	42	37	48	42	37	35
8	62	48	40	34	60	47	39	34	46	39	34	45	38	33	44	38	33	31
9	58	44	36	31	56	44	36	31	43	35	30	41	35	30	40	34	30	28
10	54	41	33	28	53	40	33	28	39	32	28	38	32	28	38	32	27	26

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UGR TABLE - CORRECTED

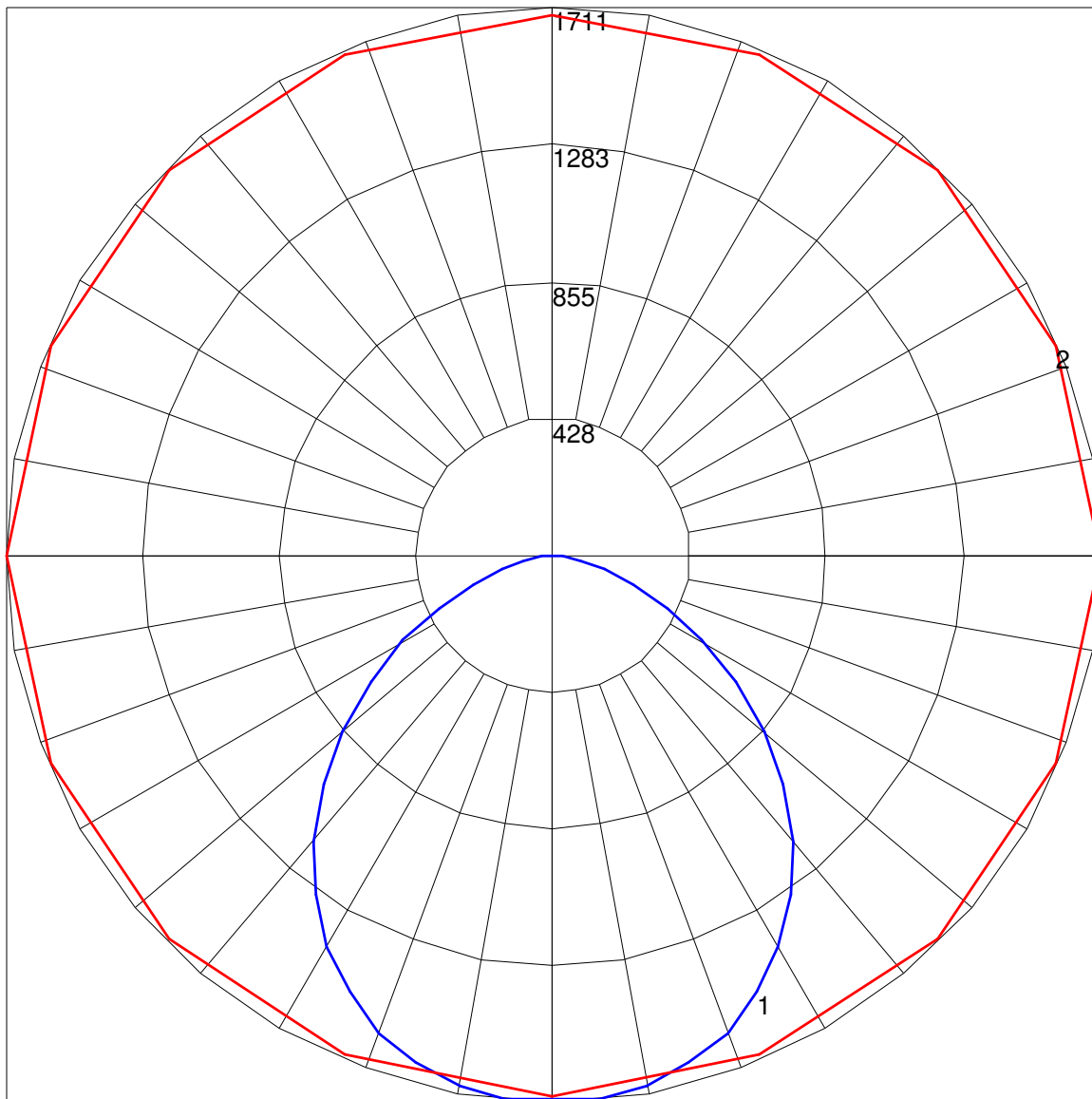
Reflectances

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	16.0	17.6	16.3	17.9	18.2	17.0	18.6	17.4	18.9	19.2
	3H	17.3	18.7	17.6	19.0	19.4	18.8	20.3	19.2	20.6	21.0
	4H	17.7	19.0	18.1	19.4	19.8	19.6	21.0	20.0	21.3	21.7
	6H	17.9	19.2	18.4	19.6	20.0	20.3	21.6	20.7	21.9	22.3
	8H	18.0	19.2	18.4	19.6	20.0	20.5	21.7	21.0	22.1	22.5
	12H	18.0	19.2	18.5	19.6	20.0	20.7	21.8	21.1	22.2	22.7
4H	2H	16.7	18.0	17.1	18.4	18.8	17.5	18.9	17.9	19.2	19.6
	3H	18.2	19.3	18.6	19.7	20.1	19.6	20.7	20.0	21.1	21.5
	4H	18.8	19.8	19.2	20.2	20.6	20.5	21.5	20.9	21.9	22.4
	6H	19.1	20.0	19.6	20.5	20.9	21.4	22.3	21.8	22.7	23.2
	8H	19.2	20.1	19.7	20.5	21.0	21.7	22.5	22.1	22.9	23.4
	12H	19.3	20.1	19.8	20.5	21.0	21.9	22.6	22.3	23.1	23.6
8H	4H	19.2	20.0	19.7	20.5	20.9	20.8	21.6	21.2	22.0	22.5
	6H	19.7	20.4	20.2	20.9	21.4	21.7	22.4	22.2	22.9	23.4
	8H	19.9	20.5	20.4	21.1	21.5	22.1	22.8	22.7	23.3	23.8
	12H	20.0	20.6	20.5	21.1	21.6	22.4	23.0	22.9	23.4	24.0
12H	4H	19.3	20.0	19.8	20.5	21.0	20.8	21.5	21.2	22.0	22.5
	6H	19.9	20.5	20.4	21.0	21.5	21.8	22.4	22.3	22.9	23.4
	8H	20.1	20.7	20.6	21.2	21.7	22.2	22.8	22.7	23.3	23.8

Maximum UGR = 24.0

POLAR GRAPH



Maximum Candela = 1710.535 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.)