



IES INDOOR REPORT

PHOTOMETRIC FILENAME : PTS-22-L38-830-RA-EM10W-DIM-UNV_(EMER MODE).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-L38-830-RA-EM12W-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	1404
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	117
Total Luminaire Watts	12
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	1319	1368	1413
55	1115	1229	1311
65	853	1066	1186
75	593	946	1169
85	337	771	964

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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	536.558	536.558	536.558	536.558	536.558
5	538.362	535.115	534.393	532.589	532.589
10	531.146	527.898	527.537	525.733	525.372
15	518.517	514.908	514.547	513.826	513.465
20	500.475	497.227	496.867	497.227	497.227
25	475.217	471.969	474.134	475.577	474.134
30	444.185	442.742	444.907	447.433	445.628
35	408.463	408.102	412.793	414.597	416.401
40	367.328	367.328	375.266	378.513	381.400
45	320.419	320.419	332.327	339.904	343.152
50	270.985	271.346	287.223	297.326	302.017
55	219.747	223.716	242.119	252.944	258.356
60	169.591	177.530	195.932	207.840	213.613
65	123.766	134.230	154.797	167.787	172.117
70	83.352	96.342	116.910	130.261	135.312
75	52.682	65.311	84.074	97.425	103.920
80	28.506	39.331	55.929	65.311	71.806
85	10.103	17.681	23.093	23.093	28.867
90	0.000	0.000	0.000	0.000	0.000

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Zone	Lumens	%Lamp	%Fixt
0-20	196.04	N.A.	14.00
0-30	414.26	N.A.	29.50
0-40	671.57	N.A.	47.80
0-60	1140.89	N.A.	81.30
0-80	1378.25	N.A.	98.20
0-90	1403.93	N.A.	100.00
10-90	1353.14	N.A.	96.40
20-40	475.53	N.A.	33.90
20-50	730.67	N.A.	52.00
40-70	620.00	N.A.	44.20
60-80	237.36	N.A.	16.90
70-80	86.68	N.A.	6.20
80-90	25.68	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	1403.93	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	50.79
10-20	145.25
20-30	218.22
30-40	257.31
40-50	255.15
50-60	214.18
60-70	150.68
70-80	86.68
80-90	25.68
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	100	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

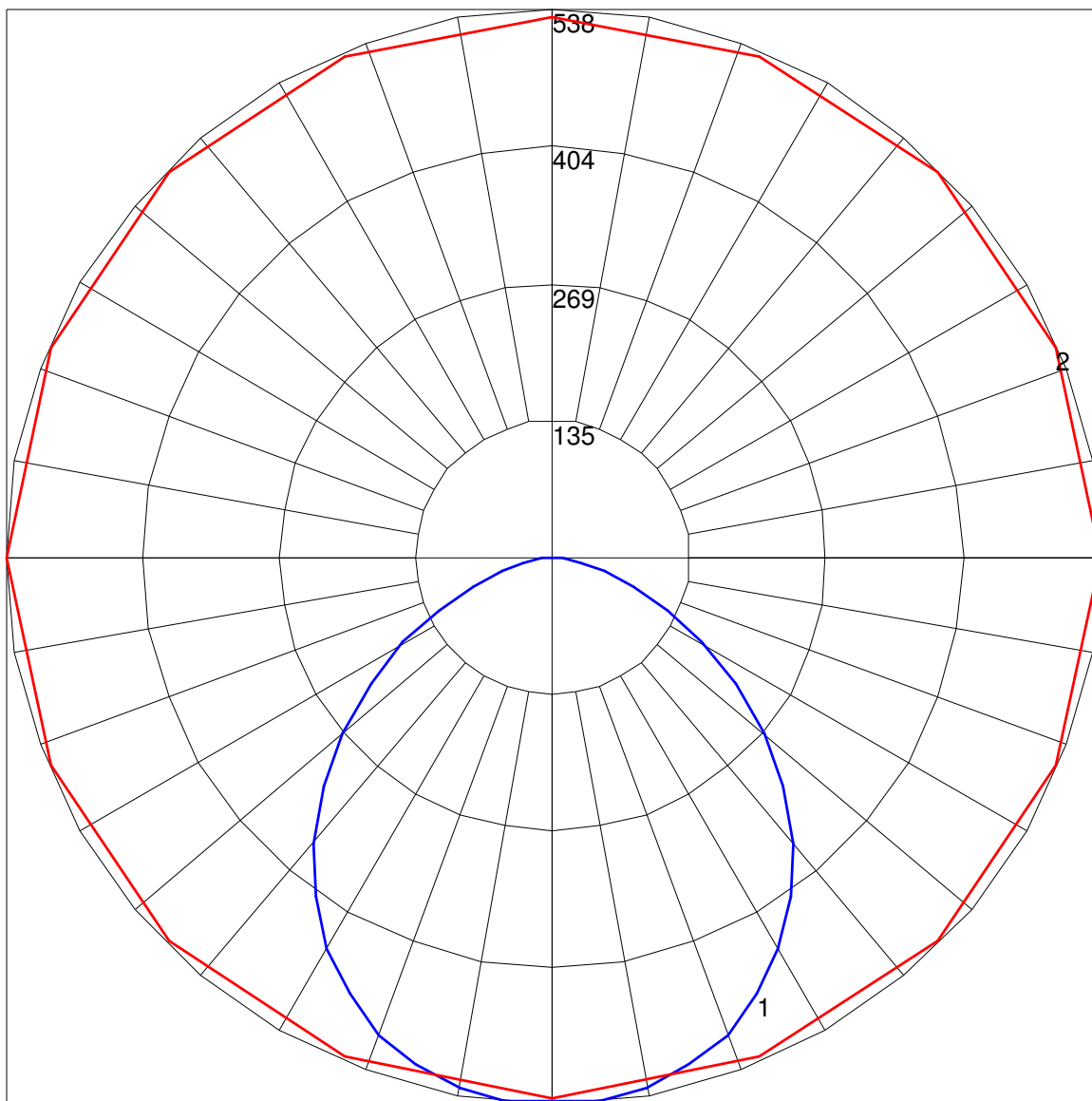
Reflectances

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	12.0	13.6	12.3	13.9	14.2	13.0	14.6	13.4	14.9	15.2
	3H	13.3	14.7	13.6	15.0	15.4	14.8	16.3	15.2	16.6	17.0
	4H	13.7	15.0	14.1	15.4	15.8	15.6	17.0	16.0	17.3	17.7
	6H	13.9	15.2	14.4	15.6	16.0	16.3	17.6	16.7	17.9	18.3
	8H	14.0	15.2	14.4	15.6	16.0	16.5	17.7	17.0	18.1	18.5
	12H	14.0	15.2	14.5	15.6	16.0	16.7	17.8	17.1	18.2	18.7
4H	2H	12.7	14.0	13.1	14.4	14.8	13.5	14.9	13.9	15.2	15.6
	3H	14.2	15.3	14.6	15.7	16.1	15.6	16.7	16.0	17.1	17.5
	4H	14.8	15.8	15.2	16.2	16.6	16.5	17.5	16.9	17.9	18.4
	6H	15.1	16.0	15.6	16.5	16.9	17.4	18.3	17.8	18.7	19.2
	8H	15.2	16.1	15.7	16.5	17.0	17.7	18.5	18.1	18.9	19.4
	12H	15.3	16.1	15.8	16.5	17.0	17.9	18.6	18.4	19.1	19.6
8H	4H	15.2	16.0	15.7	16.5	17.0	16.8	17.6	17.2	18.0	18.5
	6H	15.7	16.4	16.2	16.9	17.4	17.7	18.4	18.2	18.9	19.4
	8H	15.9	16.5	16.4	17.1	17.5	18.1	18.8	18.7	19.3	19.8
	12H	16.0	16.6	16.5	17.1	17.6	18.4	19.0	18.9	19.4	20.0
12H	4H	15.3	16.0	15.8	16.5	17.0	16.8	17.5	17.2	18.0	18.5
	6H	15.9	16.5	16.4	17.0	17.5	17.8	18.4	18.3	18.9	19.4
	8H	16.1	16.7	16.6	17.2	17.7	18.2	18.8	18.7	19.3	19.8

Maximum UGR = 20.0

POLAR GRAPH



Maximum Candela = 538.362 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.)