



IES INDOOR REPORT

PHOTOMETRIC FILENAME : PTS-22-L38-830-RA-EM12W-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	1428
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	119
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	1342	1392	1437
55	1134	1250	1334
65	867	1085	1206
75	603	962	1189
85	343	785	981

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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	545.730	545.730	545.730	545.730	545.730
5	547.565	544.262	543.528	541.693	541.693
10	540.225	536.922	536.555	534.720	534.353
15	527.380	523.710	523.343	522.609	522.242
20	509.030	505.727	505.360	505.727	505.727
25	483.340	480.037	482.239	483.707	482.239
30	451.778	450.310	452.512	455.081	453.246
35	415.445	415.078	419.849	421.684	423.519
40	373.607	373.607	381.681	384.984	387.920
45	325.897	325.897	338.008	345.715	349.018
50	275.618	275.985	292.133	302.409	307.180
55	223.503	227.540	246.258	257.268	262.773
60	172.490	180.564	199.281	211.392	217.264
65	125.881	136.524	157.443	170.655	175.059
70	84.777	97.989	118.908	132.487	137.625
75	53.582	66.427	85.511	99.090	105.696
80	28.993	40.003	56.885	66.427	73.033
85	10.276	17.983	23.488	23.488	29.360
90	0.000	0.000	0.000	0.000	0.000

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Zone	Lumens	%Lamp	%Fixt
0-20	199.39	N.A.	14.00
0-30	421.34	N.A.	29.50
0-40	683.04	N.A.	47.80
0-60	1160.39	N.A.	81.30
0-80	1401.81	N.A.	98.20
0-90	1427.93	N.A.	100.00
10-90	1376.27	N.A.	96.40
20-40	483.65	N.A.	33.90
20-50	743.16	N.A.	52.00
40-70	630.60	N.A.	44.20
60-80	241.41	N.A.	16.90
70-80	88.16	N.A.	6.20
80-90	26.12	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	1427.93	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	51.65
10-20	147.74
20-30	221.95
30-40	261.71
40-50	259.51
50-60	217.84
60-70	153.25
70-80	88.16
80-90	26.12
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

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

UGR Viewed Endwise

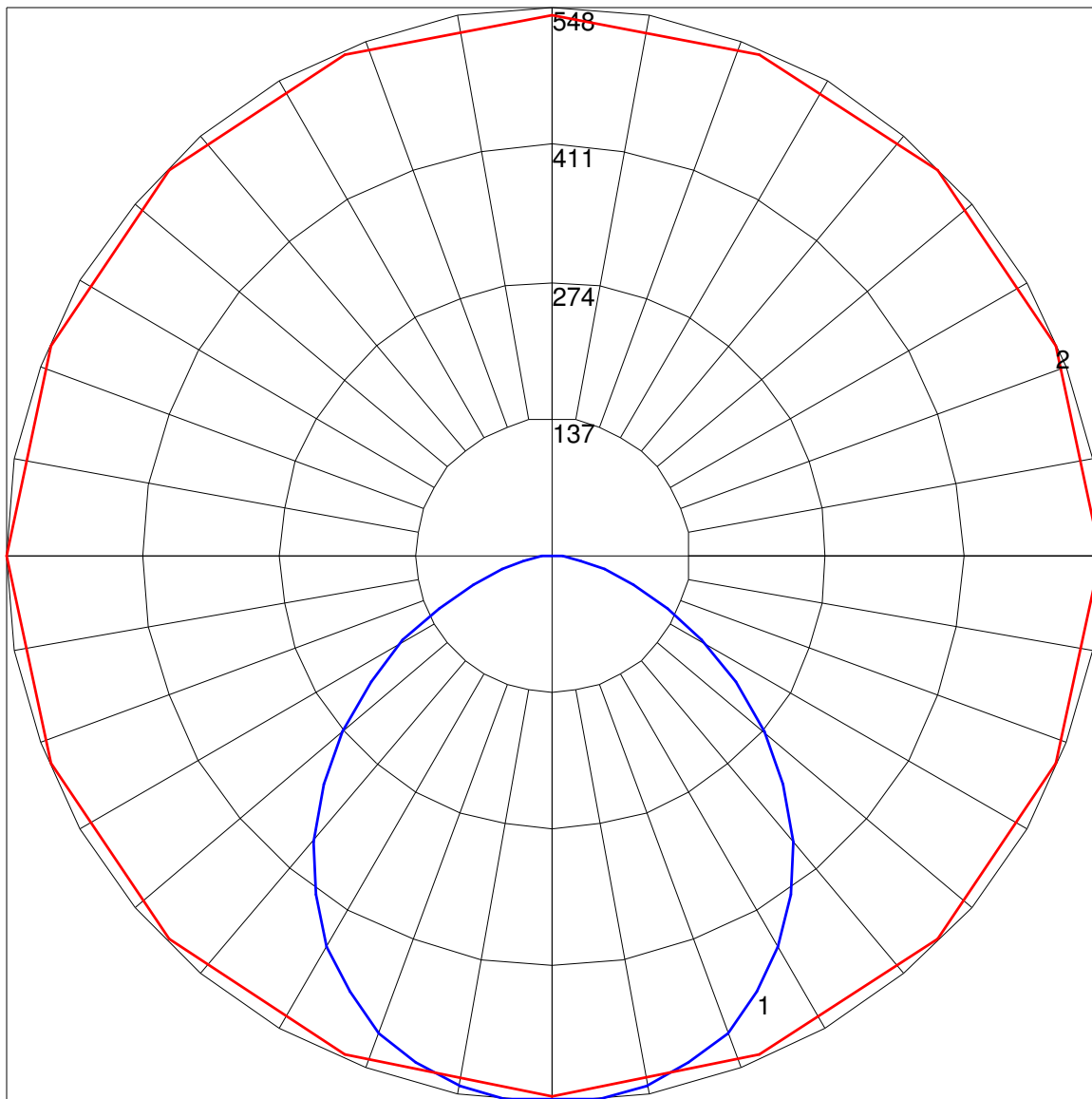
4H	2H	12.7	14.0	13.1	14.4	14.8	13.5	14.9	13.9	15.2	15.6
	3H	14.2	15.3	14.6	15.7	16.1	15.6	16.7	16.0	17.1	17.5
	4H	14.8	15.8	15.2	16.2	16.6	16.5	17.5	16.9	17.9	18.4
	6H	15.1	16.0	15.6	16.5	16.9	17.4	18.3	17.8	18.7	19.2
	8H	15.2	16.1	15.7	16.5	17.0	17.7	18.5	18.1	18.9	19.4
	12H	15.3	16.1	15.8	16.5	17.0	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 = 547.565 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.)