



IES INDOOR REPORT

PHOTOMETRIC FILENAME : PTS-22-L26-840-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] 12-14-2021
 [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-L26-840-RA-EM10W-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	1270
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	127
Total Luminaire Watts	10
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	1193	1238	1278
55	1009	1112	1186
65	771	965	1072
75	536	855	1057
85	305	698	872

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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	485.348	485.348	485.348	485.348	485.348
5	486.980	484.043	483.390	481.758	481.758
10	480.452	477.515	477.188	475.556	475.230
15	469.028	465.765	465.438	464.785	464.459
20	452.709	449.771	449.445	449.771	449.771
25	429.861	426.924	428.882	430.188	428.882
30	401.791	400.486	402.444	404.729	403.097
35	369.478	369.152	373.395	375.027	376.659
40	332.269	332.269	339.450	342.388	344.999
45	289.838	289.838	300.609	307.463	310.401
50	245.122	245.448	259.810	268.949	273.192
55	198.774	202.364	219.011	228.802	233.698
60	153.405	160.586	177.232	188.003	193.225
65	111.953	121.419	140.023	151.773	155.690
70	75.397	87.147	105.752	117.828	122.398
75	47.654	59.077	76.050	88.126	94.002
80	25.785	35.577	50.591	59.077	64.952
85	9.139	15.993	20.889	20.889	26.112
90	0.000	0.000	0.000	0.000	0.000

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Zone	Lumens	%Lamp	%Fixt
0-20	177.33	N.A.	14.00
0-30	374.72	N.A.	29.50
0-40	607.47	N.A.	47.80
0-60	1032.00	N.A.	81.30
0-80	1246.7	N.A.	98.20
0-90	1269.94	N.A.	100.00
10-90	1224.00	N.A.	96.40
20-40	430.14	N.A.	33.90
20-50	660.94	N.A.	52.00
40-70	560.83	N.A.	44.20
60-80	214.70	N.A.	16.90
70-80	78.41	N.A.	6.20
80-90	23.23	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	1269.94	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	45.94
10-20	131.39
20-30	197.39
30-40	232.75
40-50	230.80
50-60	193.74
60-70	136.29
70-80	78.41
80-90	23.23
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

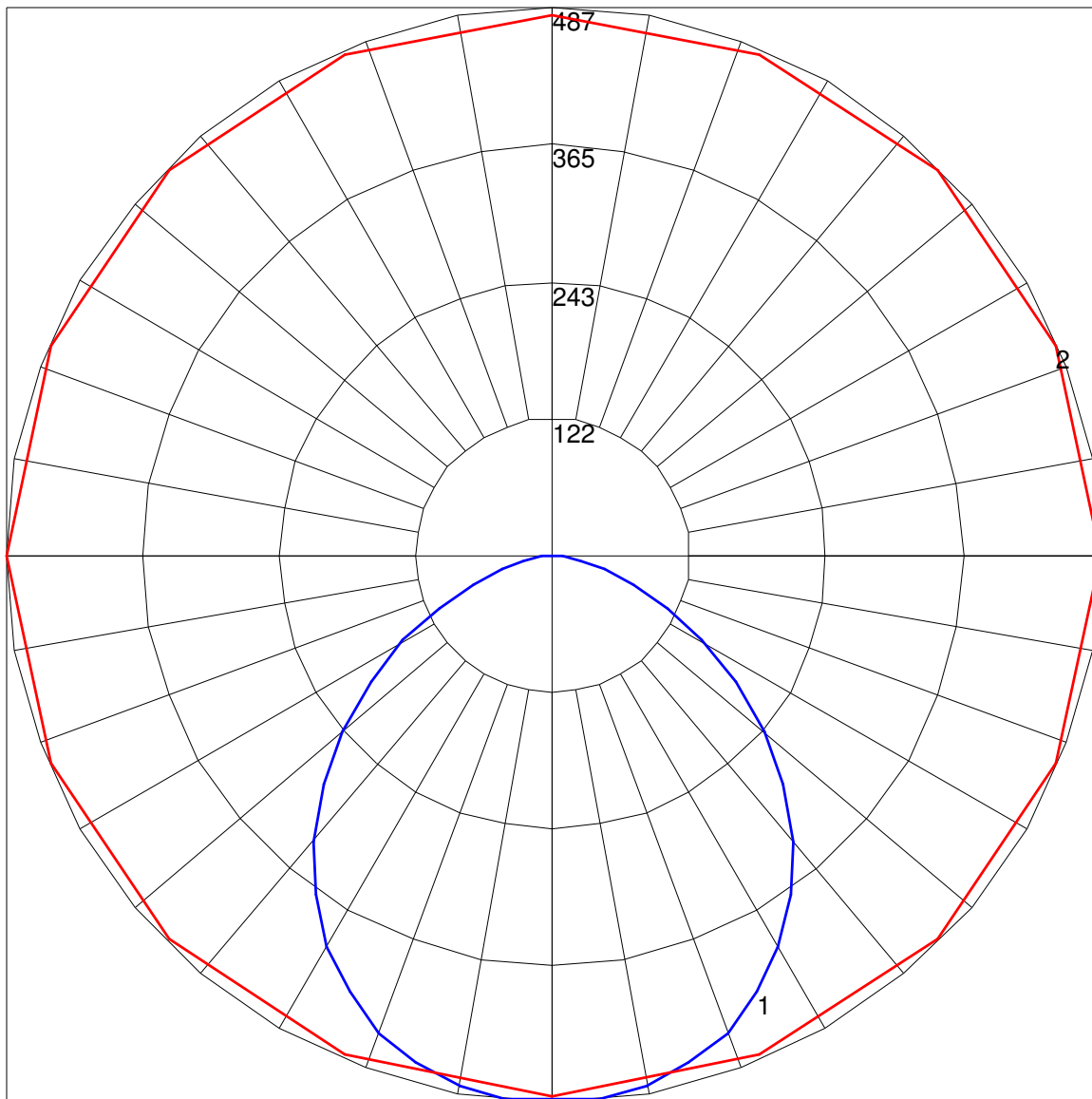
X=2H	Y=2H	11.6	13.2	11.9	13.5	13.8	12.6	14.2	13.0	14.5	14.8
	3H	12.9	14.3	13.2	14.6	15.0	14.4	15.9	14.8	16.2	16.6
	4H	13.3	14.6	13.7	15.0	15.4	15.2	16.6	15.6	16.9	17.3
	6H	13.5	14.8	14.0	15.2	15.6	15.9	17.2	16.3	17.5	17.9
	8H	13.6	14.8	14.0	15.2	15.6	16.1	17.3	16.6	17.7	18.1
	12H	13.6	14.8	14.1	15.2	15.6	16.3	17.4	16.7	17.8	18.3

UGR Viewed Endwise

4H	2H	12.3	13.6	12.7	14.0	14.4	13.1	14.5	13.5	14.8	15.2
	3H	13.8	14.9	14.2	15.3	15.7	15.2	16.3	15.6	16.7	17.1
	4H	14.4	15.4	14.8	15.8	16.2	16.1	17.1	16.5	17.5	18.0
	6H	14.7	15.6	15.2	16.1	16.5	17.0	17.9	17.4	18.3	18.8
	8H	14.8	15.7	15.3	16.1	16.6	17.3	18.1	17.7	18.5	19.0
	12H	14.9	15.7	15.4	16.1	16.6	17.5	18.2	18.0	18.7	19.2
8H	4H	14.8	15.6	15.3	16.1	16.6	16.4	17.2	16.8	17.6	18.1
	6H	15.3	16.0	15.8	16.5	17.0	17.3	18.0	17.8	18.5	19.0
	8H	15.5	16.1	16.0	16.7	17.1	17.7	18.4	18.3	18.9	19.4
	12H	15.6	16.2	16.1	16.7	17.2	18.0	18.6	18.5	19.0	19.6
12H	4H	14.9	15.6	15.4	16.1	16.6	16.4	17.1	16.8	17.6	18.1
	6H	15.5	16.1	16.0	16.6	17.1	17.4	18.0	17.9	18.5	19.0
	8H	15.7	16.3	16.2	16.8	17.3	17.8	18.4	18.3	18.9	19.4

Maximum UGR = 19.6

POLAR GRAPH



Maximum Candela = 486.98 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.)