



IES INDOOR REPORT

PHOTOMETRIC FILENAME : PTS-14-L45-840-RA-(L33)-DIM-UNV_.IES

DESCRIPTION INFORMATION (From Photometric File)

IESNA:LM-63-2002

[TEST] GEN FROM BALLABS TEST NO. 19323.0

[TESTLAB] BUILDING ACOUSTICS & LIGHTING LABORATORIES, INC

[ISSUEDATE] 12-05-2022

[MANUFAC] WILLIAMS INDOOR

[OTHER] H.E. WILLIAMS, INC - CARTHAGE, MO

[LUMINAIRE] 1x4' SURFACE MOUNT LED LUMINAIRE

[MORE] WHITE REFLECTOR w/WHITE RIBBED ACRYLIC LENS

[LUMCAT] PTS-14-L45-840-RA-(L33)-DIM-UNV

[LAMPCAT] HLM 80 CRI 4000K CCT

[_SEARCH_SOURCETYPE] LED

[_SEARCH_APPLICATION] Indoor, Architectural, Office, Direct

[_SEARCH_MOUNTING] Surface

CHARACTERISTICS

Lumens Per Lamp	N.A. (absolute)
Total Lamp Lumens	N.A. (absolute)
Luminaire Lumens	3422
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	140
Total Luminaire Watts	24.4
Ballast Factor	1.00
CIE Type	Direct
Spacing Criterion (0-180)	1.26
Spacing Criterion (90-270)	1.26
Spacing Criterion (Diagonal)	1.36
Basic Luminous Shape	Rectangular
Luminous Length (0-180)	3.92 ft
Luminous Width (90-270)	0.94 ft
Luminous Height	0.00 ft

LUMINANCE DATA (cd/sq.m)

Angle In Degrees	Average 0-Deg	Average 45-Deg	Average 90-Deg
45	3203	3345	3394
55	2827	3106	3238
65	2460	2915	2991
75	1787	2504	2610
85	814	1340	1576

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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	1247.066	1247.066	1247.066	1247.066	1247.066
5	1275.231	1265.843	1261.148	1249.413	1242.372
10	1253.325	1246.284	1243.937	1231.419	1225.160
15	1218.902	1212.643	1215.772	1200.908	1200.908
20	1169.614	1167.266	1172.743	1158.661	1163.355
25	1114.849	1109.373	1120.325	1110.155	1107.026
30	1050.696	1040.526	1056.173	1050.696	1049.132
35	970.114	962.291	982.632	978.720	983.414
40	876.232	874.668	896.573	899.703	895.791
45	773.744	776.091	808.168	815.209	819.903
50	664.998	676.733	710.374	727.586	727.586
55	553.904	575.810	608.668	642.309	634.486
60	453.763	472.540	511.657	539.039	535.128
65	355.187	371.616	420.904	440.463	431.857
70	253.481	283.993	324.675	334.064	330.152
75	158.035	198.717	221.405	230.793	230.793
80	80.582	118.135	126.741	133.782	128.305
85	24.253	46.159	39.900	43.812	46.941
90	0.000	0.000	0.000	0.000	0.000

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Zone	Lumens	%Lamp	%Fixt
0-20	460.51	N.A.	13.50
0-30	973.14	N.A.	28.40
0-40	1582.3	N.A.	46.20
0-60	2739.27	N.A.	80.00
0-80	3366.63	N.A.	98.40
0-90	3422.02	N.A.	100.00
10-90	3302.66	N.A.	96.50
20-40	1121.79	N.A.	32.80
20-50	1737.86	N.A.	50.80
40-70	1559.55	N.A.	45.60
60-80	627.36	N.A.	18.30
70-80	224.77	N.A.	6.60
80-90	55.38	N.A.	1.60
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	3422.02	N.A.	100.00

Total Luminaire Efficiency = N.A.%

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	119.35
10-20	341.16
20-30	512.63
30-40	609.16
40-50	616.07
50-60	540.90
60-70	402.59
70-80	224.77
80-90	55.38
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	96	106	102	98	95	98	95	92	94	91	89	90	88	86	84
2	99	91	84	79	97	89	83	78	86	80	76	82	78	74	79	76	73	70
3	91	80	72	66	88	78	71	65	76	69	64	73	67	63	70	66	62	59
4	83	71	62	56	81	70	62	55	67	60	55	65	59	54	63	57	53	51
5	76	64	55	48	74	62	54	48	60	53	47	58	52	47	56	51	46	44
6	71	57	48	42	69	56	48	42	54	47	41	53	46	41	51	45	41	39
7	65	52	43	37	64	51	43	37	50	42	37	48	41	36	47	41	36	34
8	61	47	39	33	59	47	39	33	45	38	33	44	38	33	43	37	32	31
9	57	44	35	30	56	43	35	30	42	35	30	41	34	29	40	34	29	27
10	53	40	32	27	52	40	32	27	39	32	27	38	31	27	37	31	27	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

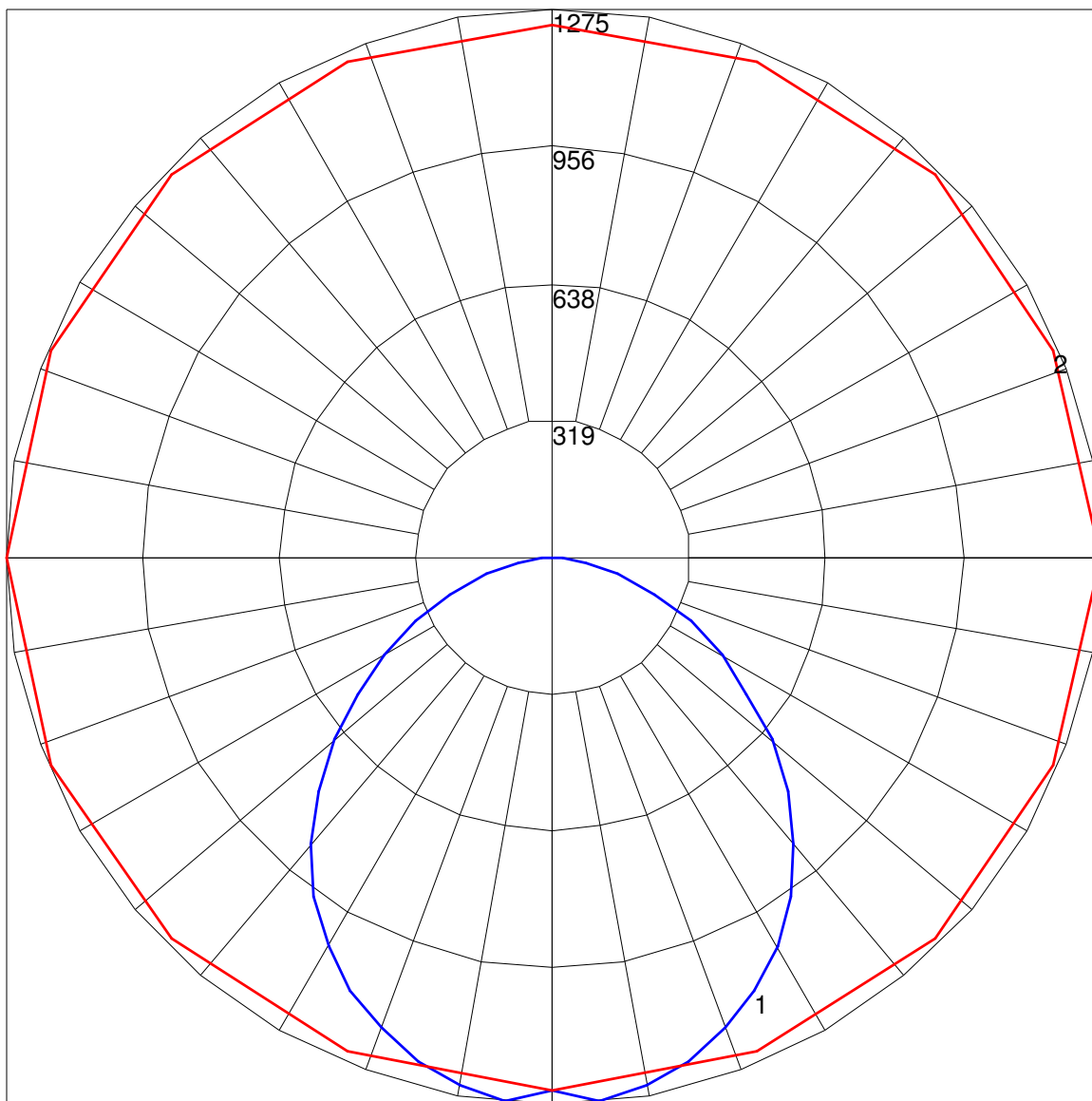
X=2H	Y=2H	15.6	17.2	15.9	17.5	17.8	16.4	18.0	16.8	18.4	18.7
	3H	17.1	18.6	17.5	18.9	19.3	18.2	19.7	18.6	20.0	20.4
	4H	17.6	19.0	18.0	19.4	19.7	18.9	20.2	19.3	20.6	21.0
	6H	17.9	19.2	18.4	19.6	20.0	19.3	20.6	19.7	20.9	21.3
	8H	18.0	19.2	18.4	19.6	20.0	19.4	20.6	19.8	21.0	21.4
	12H	18.0	19.2	18.5	19.6	20.0	19.5	20.7	19.9	21.0	21.5

UGR Viewed Endwise

4H	2H	16.3	17.7	16.7	18.0	18.4	17.0	18.4	17.4	18.7	19.1
	3H	18.1	19.3	18.5	19.7	20.1	19.0	20.2	19.4	20.6	21.0
	4H	18.8	19.8	19.2	20.2	20.7	19.8	20.8	20.2	21.3	21.7
	6H	19.2	20.1	19.7	20.6	21.0	20.4	21.3	20.8	21.7	22.2
	8H	19.3	20.2	19.8	20.6	21.1	20.5	21.4	21.0	21.8	22.3
	12H	19.4	20.2	19.9	20.6	21.1	20.6	21.4	21.1	21.9	22.4
8H	4H	19.2	20.0	19.6	20.5	20.9	20.1	20.9	20.5	21.4	21.8
	6H	19.8	20.5	20.2	20.9	21.4	20.8	21.5	21.3	22.0	22.4
	8H	19.9	20.6	20.4	21.1	21.6	21.0	21.6	21.5	22.1	22.6
	12H	20.1	20.6	20.6	21.1	21.7	21.1	21.7	21.6	22.2	22.8
12H	4H	19.2	20.0	19.7	20.5	20.9	20.1	20.9	20.6	21.3	21.8
	6H	19.8	20.5	20.3	20.9	21.5	20.8	21.4	21.3	21.9	22.4
	8H	20.1	20.6	20.6	21.1	21.7	21.1	21.6	21.6	22.1	22.7

Maximum UGR = 22.8

POLAR GRAPH



Maximum Candela = 1275.231 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.)