



IES INDOOR REPORT

PHOTOMETRIC FILENAME : PTS-14-L27-830-RA-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] 1-23-23
 [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-L27-830-RA-DIM-UNV
 [LAMPCAT] HLM 80 CRI 3000K CCT
 [_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	2696
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	126
Total Luminaire Watts	21.4
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	2523	2636	2674
55	2227	2447	2551
65	1938	2297	2356
75	1408	1973	2056
85	642	1056	1242

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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	982.493	982.493	982.493	982.493	982.493
5	1004.682	997.286	993.588	984.342	978.795
10	987.424	981.876	980.027	970.165	965.235
15	960.304	955.373	957.838	946.127	946.127
20	921.472	919.623	923.938	912.843	916.541
25	878.326	874.012	882.641	874.628	872.163
30	827.784	819.771	832.099	827.784	826.551
35	764.298	758.134	774.160	771.078	774.776
40	690.334	689.101	706.359	708.825	705.743
45	609.589	611.438	636.710	642.257	645.955
50	523.914	533.160	559.663	573.224	573.224
55	436.390	453.648	479.535	506.039	499.876
60	357.494	372.287	403.106	424.679	421.597
65	279.832	292.775	331.607	347.016	340.236
70	199.704	223.742	255.793	263.190	260.108
75	124.507	156.558	174.433	181.829	181.829
80	63.486	93.072	99.852	105.399	101.085
85	19.107	36.366	31.435	34.517	36.982
90	0.000	0.000	0.000	0.000	0.000

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ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixt
0-20	362.81	N.A.	13.50
0-30	766.68	N.A.	28.40
0-40	1246.61	N.A.	46.20
0-60	2158.12	N.A.	80.00
0-80	2652.38	N.A.	98.40
0-90	2696.01	N.A.	100.00
10-90	2601.98	N.A.	96.50
20-40	883.80	N.A.	32.80
20-50	1369.16	N.A.	50.80
40-70	1228.68	N.A.	45.60
60-80	494.26	N.A.	18.30
70-80	177.09	N.A.	6.60
80-90	43.63	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	2696.01	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	94.03
10-20	268.78
20-30	403.87
30-40	479.92
40-50	485.37
50-60	426.14
60-70	317.18
70-80	177.09
80-90	43.63
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

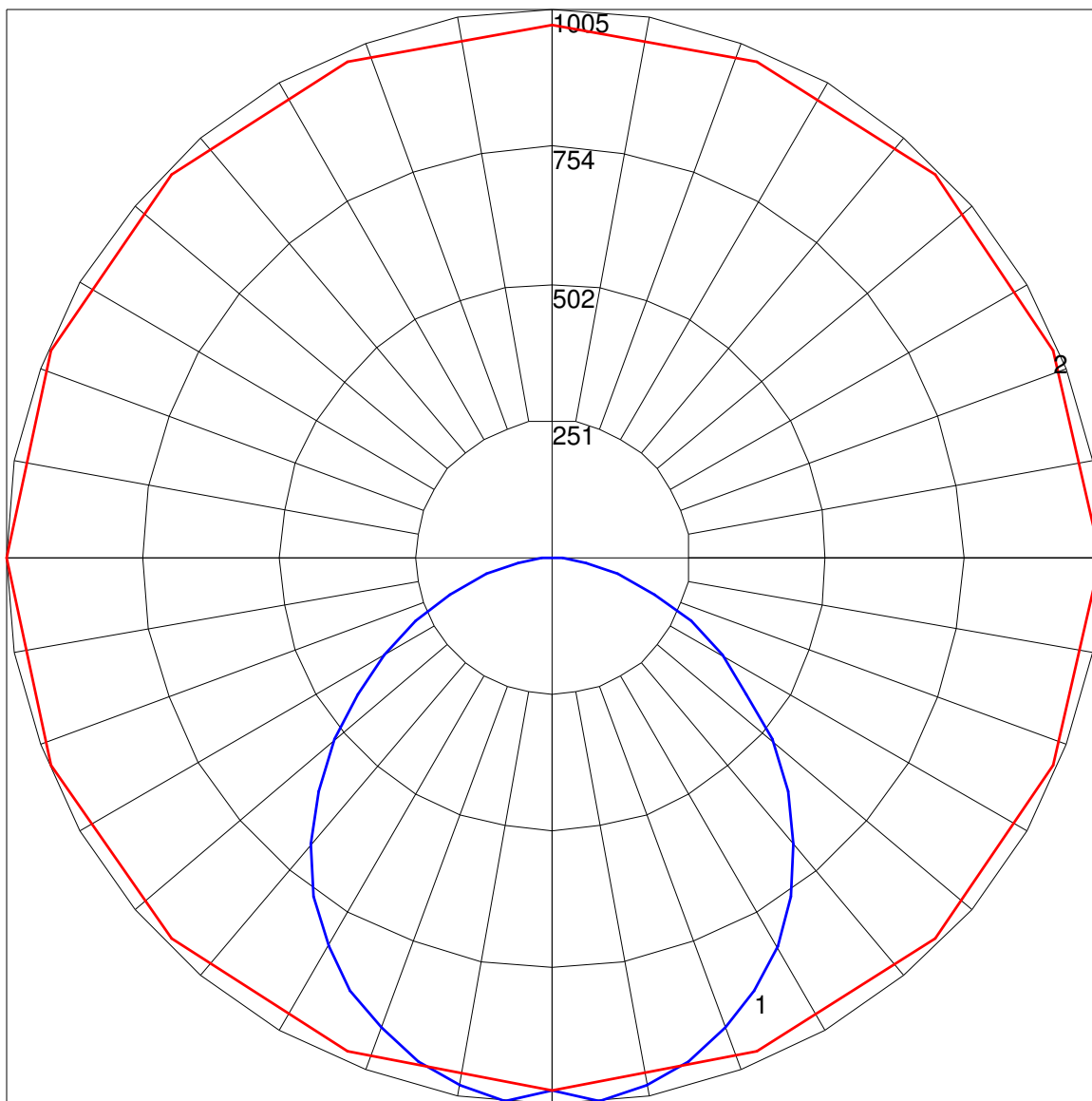
Reflectances

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					UGR Viewed Endwise				
X=2H	Y=2H	14.7	16.3	15.0	16.6	16.9	15.5	17.1	15.9	17.5	17.8
	3H	16.2	17.7	16.6	18.0	18.4	17.3	18.8	17.7	19.1	19.5
	4H	16.7	18.1	17.1	18.5	18.8	18.0	19.3	18.4	19.7	20.1
	6H	17.0	18.3	17.5	18.7	19.1	18.4	19.7	18.8	20.0	20.4
	8H	17.1	18.3	17.5	18.7	19.1	18.5	19.7	18.9	20.1	20.5
	12H	17.1	18.3	17.6	18.7	19.1	18.6	19.8	19.0	20.1	20.6
4H	2H	15.4	16.8	15.8	17.1	17.5	16.1	17.5	16.5	17.8	18.2
	3H	17.2	18.4	17.6	18.8	19.2	18.1	19.3	18.5	19.7	20.1
	4H	17.9	18.9	18.3	19.3	19.8	18.9	19.9	19.3	20.4	20.8
	6H	18.3	19.2	18.8	19.7	20.1	19.5	20.4	19.9	20.8	21.3
	8H	18.4	19.3	18.9	19.7	20.2	19.6	20.5	20.1	20.9	21.4
	12H	18.5	19.3	19.0	19.7	20.2	19.7	20.5	20.2	21.0	21.5
8H	4H	18.3	19.1	18.7	19.6	20.0	19.2	20.0	19.6	20.5	20.9
	6H	18.9	19.6	19.3	20.0	20.5	19.9	20.6	20.4	21.1	21.5
	8H	19.0	19.7	19.5	20.2	20.7	20.1	20.7	20.6	21.2	21.7
	12H	19.2	19.7	19.7	20.2	20.8	20.2	20.8	20.7	21.3	21.9
12H	4H	18.3	19.1	18.8	19.6	20.0	19.2	20.0	19.7	20.4	20.9
	6H	18.9	19.6	19.4	20.0	20.6	19.9	20.5	20.4	21.0	21.5
	8H	19.2	19.7	19.7	20.2	20.8	20.2	20.7	20.7	21.2	21.8

Maximum UGR = 21.9

POLAR GRAPH



Maximum Candela = 1004.682 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.)