



IES INDOOR REPORT

PHOTOMETRIC FILENAME : PTS-14-L27-830-RA-EM10W-DIM-UNV_(EMER MODE).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] 01-23-23
 [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-EM10W-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	1260
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	126
Total Luminaire Watts	10
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	1179	1232	1250
55	1041	1144	1192
65	906	1073	1101
75	658	922	961
85	300	493	580

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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	459.177	459.177	459.177	459.177	459.177
5	469.547	466.091	464.362	460.041	457.449
10	461.482	458.889	458.025	453.416	451.111
15	448.807	446.502	447.654	442.181	442.181
20	430.659	429.794	431.811	426.626	428.354
25	410.494	408.477	412.510	408.766	407.613
30	386.873	383.128	388.889	386.873	386.296
35	357.202	354.321	361.811	360.370	362.099
40	322.634	322.058	330.124	331.276	329.835
45	284.897	285.761	297.572	300.165	301.893
50	244.856	249.177	261.564	267.901	267.901
55	203.951	212.017	224.115	236.502	233.621
60	167.078	173.992	188.395	198.477	197.037
65	130.782	136.831	154.979	162.181	159.012
70	93.333	104.568	119.547	123.004	121.564
75	58.189	73.169	81.523	84.979	84.979
80	29.671	43.498	46.667	49.259	47.243
85	8.930	16.996	14.691	16.132	17.284
90	0.000	0.000	0.000	0.000	0.000

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Zone	Lumens	%Lamp	%Fixt
0-20	169.56	N.A.	13.50
0-30	358.32	N.A.	28.40
0-40	582.61	N.A.	46.20
0-60	1008.62	N.A.	80.00
0-80	1239.61	N.A.	98.40
0-90	1260.01	N.A.	100.00
10-90	1216.06	N.A.	96.50
20-40	413.05	N.A.	32.80
20-50	639.89	N.A.	50.80
40-70	574.24	N.A.	45.60
60-80	231.00	N.A.	18.30
70-80	82.76	N.A.	6.60
80-90	20.39	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	1260.01	N.A.	100.00

Total Luminaire Efficiency = N.A.%

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	43.95
10-20	125.62
20-30	188.75
30-40	224.30
40-50	226.84
50-60	199.16
60-70	148.23
70-80	82.76
80-90	20.39
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

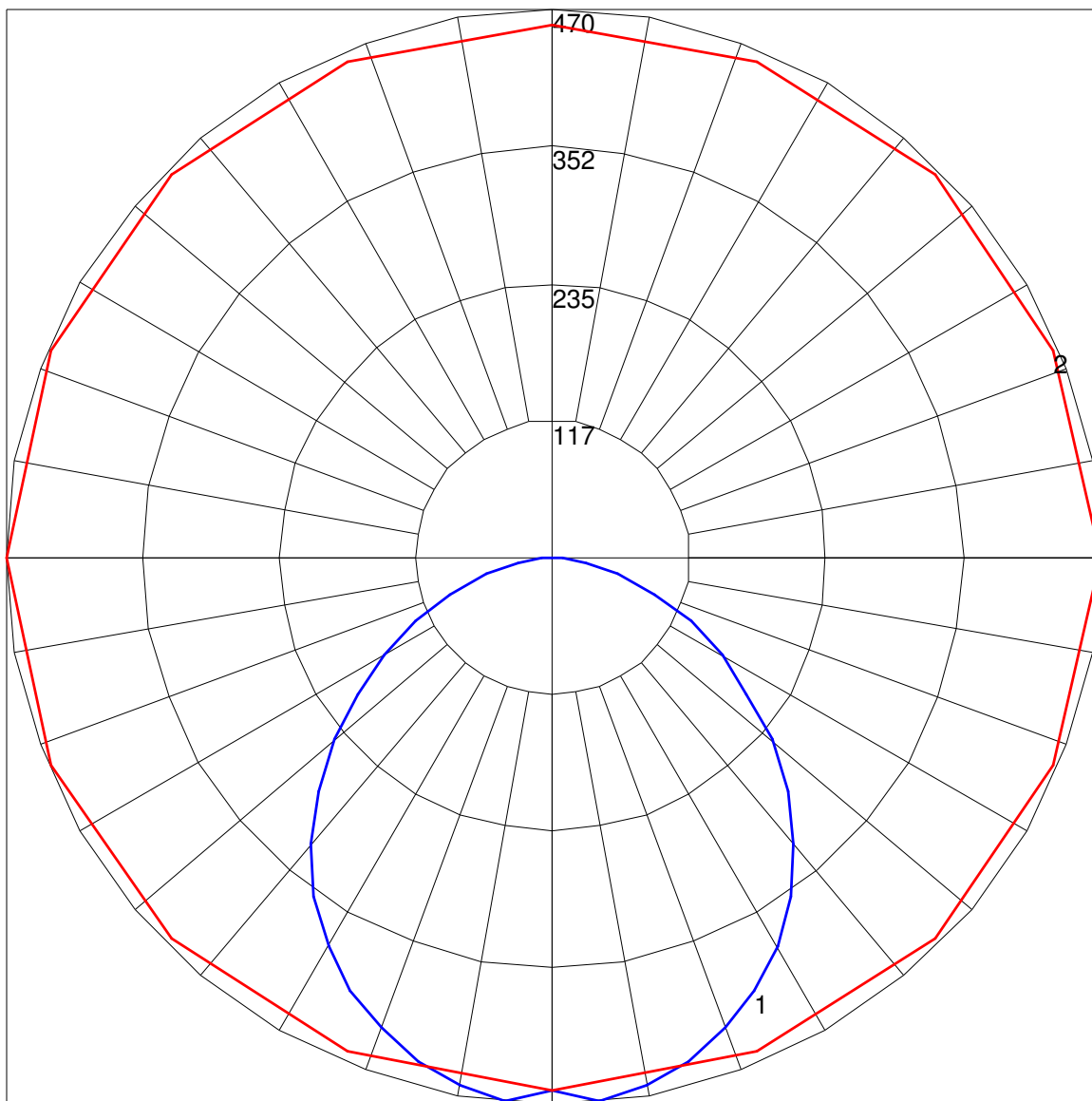
Reflectances

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	12.1	13.7	12.4	14.0	14.3	12.9	14.5	13.3	14.9	15.2
	3H	13.6	15.1	14.0	15.4	15.8	14.7	16.2	15.1	16.5	16.9
	4H	14.1	15.5	14.5	15.9	16.2	15.4	16.7	15.8	17.1	17.5
	6H	14.4	15.7	14.9	16.1	16.5	15.8	17.1	16.2	17.4	17.8
	8H	14.5	15.7	14.9	16.1	16.5	15.9	17.1	16.3	17.5	17.9
	12H	14.5	15.7	15.0	16.1	16.5	16.0	17.2	16.4	17.5	18.0
4H	2H	12.8	14.2	13.2	14.5	14.9	13.5	14.9	13.9	15.2	15.6
	3H	14.6	15.8	15.0	16.2	16.6	15.5	16.7	15.9	17.1	17.5
	4H	15.3	16.3	15.7	16.7	17.2	16.3	17.3	16.7	17.8	18.2
	6H	15.7	16.6	16.2	17.1	17.5	16.9	17.8	17.3	18.2	18.7
	8H	15.8	16.7	16.3	17.1	17.6	17.0	17.9	17.5	18.3	18.8
	12H	15.9	16.7	16.4	17.1	17.6	17.1	17.9	17.6	18.4	18.9
8H	4H	15.7	16.5	16.1	17.0	17.4	16.6	17.4	17.0	17.9	18.3
	6H	16.3	17.0	16.7	17.4	17.9	17.3	18.0	17.8	18.5	18.9
	8H	16.4	17.1	16.9	17.6	18.1	17.5	18.1	18.0	18.6	19.1
	12H	16.6	17.1	17.1	17.6	18.2	17.6	18.2	18.1	18.7	19.3
12H	4H	15.7	16.5	16.2	17.0	17.4	16.6	17.4	17.1	17.8	18.3
	6H	16.3	17.0	16.8	17.4	18.0	17.3	17.9	17.8	18.4	18.9
	8H	16.6	17.1	17.1	17.6	18.2	17.6	18.1	18.1	18.6	19.2

Maximum UGR = 19.3

POLAR GRAPH



Maximum Candela = 469.547 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.)