



IES INDOOR REPORT

PHOTOMETRIC FILENAME : PXX-42-3-08-L4-840-S-LCAP-RCAP-(L3)-DIM-UNV_.IES

DESCRIPTION INFORMATION (From Photometric File)

IESNA:LM-63-2002
 [TEST]GEN FROM BALLABS TEST NO. 20584.0
 [TESTLAB] BUILDING ACOUSTICS & LIGHTING LABORATORIES, INC
 [ISSUE DATE] 10-08-2020
 [MANUFAC] WILLIAMS INDOOR
 [OTHER] H.E. WILLIAMS, INC - CARTHAGE, MO 64836
 [LUMINAIRE] 3'-8" PERIMETER LUMINAIRE
 [MORE] WHITE ASYM REFLECTOR w/OPEN BOTTOM
 [LUMCAT] PXX-42-3-08-L4-840-S-xxxx-xxx-DIM-UNV
 [LAMPCAT] HLM 80 CRI, 4000K CCT
 [SEARCH_SOURCETYPE] LED
 [SEARCH_APPLICATION] Indoor, Perimeter, Corridor, Healthcare, Indirect
 [SEARCH_MOUNTING] Wall, Recessed

CHARACTERISTICS

Lumens Per Lamp	N.A. (absolute)
Total Lamp Lumens	N.A. (absolute)
Luminaire Lumens	1171
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	116
Total Luminaire Watts	10.11
Ballast Factor	1.00
CIE Type	Direct
Spacing Criterion (0-180)	1.22
Spacing Criterion (90-270)	1.34
Spacing Criterion (Diagonal)	1.24
Basic Luminous Shape	Rectangular
Luminous Length (0-180)	0.33 ft
Luminous Width (90-270)	3.69 ft
Luminous Height	0.00 ft

LUMINANCE DATA (cd/sq.m)

Angle In Degrees	Average 0-Deg	Average 45-Deg	Average 90-Deg
45	3124	3999	4742
55	2517	3127	4743
65	1958	2406	4592
75	1190	1561	4104
85	0	259	1134

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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>	<u>112.5</u>	<u>135.0</u>	<u>157.5</u>	<u>180.0</u>
0	521.627	521.627	521.627	521.627	521.627	521.627	521.627	521.627	521.627
5	507.756	511.950	517.434	525.176	533.563	528.402	527.111	504.530	518.401
10	497.110	500.981	508.078	519.692	530.660	524.531	520.659	497.756	510.337
15	481.949	486.788	495.497	506.788	521.305	514.208	508.724	484.207	493.562
20	465.819	470.658	478.078	491.949	507.756	499.691	490.013	459.690	461.626
25	448.077	452.916	459.045	473.561	490.981	481.304	463.239	413.237	403.559
30	428.399	430.980	435.173	450.012	469.045	457.754	422.915	332.267	297.750
35	369.365	394.527	410.979	421.947	444.528	429.689	350.332	227.426	190.650
40	305.492	323.557	382.269	393.882	416.463	393.237	259.039	131.939	195.489
45	252.265	269.362	322.912	361.623	382.914	350.010	164.843	86.131	81.938
50	204.844	217.748	259.039	322.912	350.010	293.556	151.294	71.292	70.325
55	164.843	172.908	204.844	284.847	310.654	218.393	68.389	60.647	62.582
60	126.778	136.133	157.424	230.651	269.362	133.229	55.485	57.098	60.647
65	94.519	100.003	116.132	163.875	221.619	74.841	48.066	53.550	56.453
70	61.292	65.163	80.647	106.455	173.553	40.646	43.227	45.808	46.453
75	35.162	37.743	46.130	64.518	121.294	29.356	34.194	34.517	33.872
80	13.871	16.775	20.646	30.323	62.260	22.259	21.613	20.968	20.001
85	0.000	0.645	2.581	6.129	11.291	8.065	7.742	6.774	7.420
90	0.000	0.000	0.000	0.000	0.000	0.000	0.323	0.000	0.000

IES INDOOR REPORT**PHOTOMETRIC FILENAME : PXX-42-3-08-L4-840-S-LCAP-RCAP-(L3)-DIM-UNV_.IES****ZONAL LUMEN SUMMARY**

Zone	Lumens	%Lamp	%Fixt
0-20	190.61	N.A.	16.30
0-30	400.29	N.A.	34.20
0-40	631.55	N.A.	53.90
0-60	1000.21	N.A.	85.40
0-80	1160.48	N.A.	99.10
0-90	1170.88	N.A.	100.00
10-90	1121.46	N.A.	95.80
20-40	440.94	N.A.	37.70
20-50	647.42	N.A.	55.30
40-70	475.33	N.A.	40.60
60-80	160.26	N.A.	13.70
70-80	53.59	N.A.	4.60
80-90	10.40	N.A.	0.90
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	1170.88	N.A.	100.00

Total Luminaire Efficiency = N.A.%

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	49.42
10-20	141.19
20-30	209.68
30-40	231.26
40-50	206.47
50-60	162.19
60-70	106.67
70-80	53.59
80-90	10.40
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	110	106	102	99	107	104	100	97	99	97	94	95	93	91	92	90	88	86
2	101	94	87	82	99	92	86	81	88	84	79	85	81	78	82	79	76	74
3	93	83	76	70	90	82	75	69	79	73	68	76	71	67	74	69	66	64
4	86	75	66	60	83	73	66	60	71	64	59	69	63	58	66	61	57	55
5	79	67	59	53	77	66	58	52	64	57	52	62	56	51	60	55	51	49
6	73	61	53	46	72	60	52	46	58	51	46	57	50	46	55	49	45	43
7	68	56	47	41	67	55	47	41	53	46	41	52	46	41	51	45	41	39
8	64	51	43	37	62	50	43	37	49	42	37	48	41	37	47	41	37	35
9	60	47	39	34	58	46	39	34	45	38	34	44	38	33	43	38	33	32
10	56	44	36	31	55	43	36	31	42	35	31	41	35	31	40	35	30	29

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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	14.7	16.2	15.1	16.5	16.9	17.6	19.1	18.0	19.4	19.8
	3H	15.8	17.2	16.2	17.5	17.9	19.3	20.7	19.7	21.0	21.3
	4H	16.1	17.4	16.5	17.8	18.1	20.0	21.3	20.4	21.7	22.0
	6H	16.3	17.4	16.7	17.8	18.2	20.5	21.7	21.0	22.1	22.5
	8H	16.2	17.4	16.7	17.8	18.2	20.7	21.8	21.1	22.2	22.6
	12H	16.2	17.3	16.7	17.7	18.1	20.7	21.8	21.1	22.1	22.6

UGR Viewed Endwise

4H	2H	15.4	16.7	15.8	17.0	17.4	17.6	18.9	18.0	19.3	19.7
	3H	16.7	17.7	17.1	18.1	18.5	19.5	20.5	19.9	20.9	21.3
	4H	17.0	18.0	17.5	18.4	18.8	20.2	21.2	20.6	21.6	22.0
	6H	17.2	18.0	17.7	18.5	18.9	20.8	21.6	21.3	22.1	22.5
	8H	17.2	18.0	17.7	18.4	18.9	21.0	21.8	21.4	22.2	22.7
	12H	17.2	17.9	17.7	18.4	18.8	21.0	21.7	21.5	22.2	22.7

8H	4H	17.3	18.1	17.8	18.5	19.0	20.2	21.0	20.7	21.4	21.9
	6H	17.5	18.2	18.0	18.6	19.1	20.8	21.5	21.3	22.0	22.4
	8H	17.5	18.1	18.0	18.6	19.1	21.0	21.6	21.5	22.1	22.6
	12H	17.5	18.0	18.0	18.5	19.1	21.1	21.6	21.6	22.1	22.7

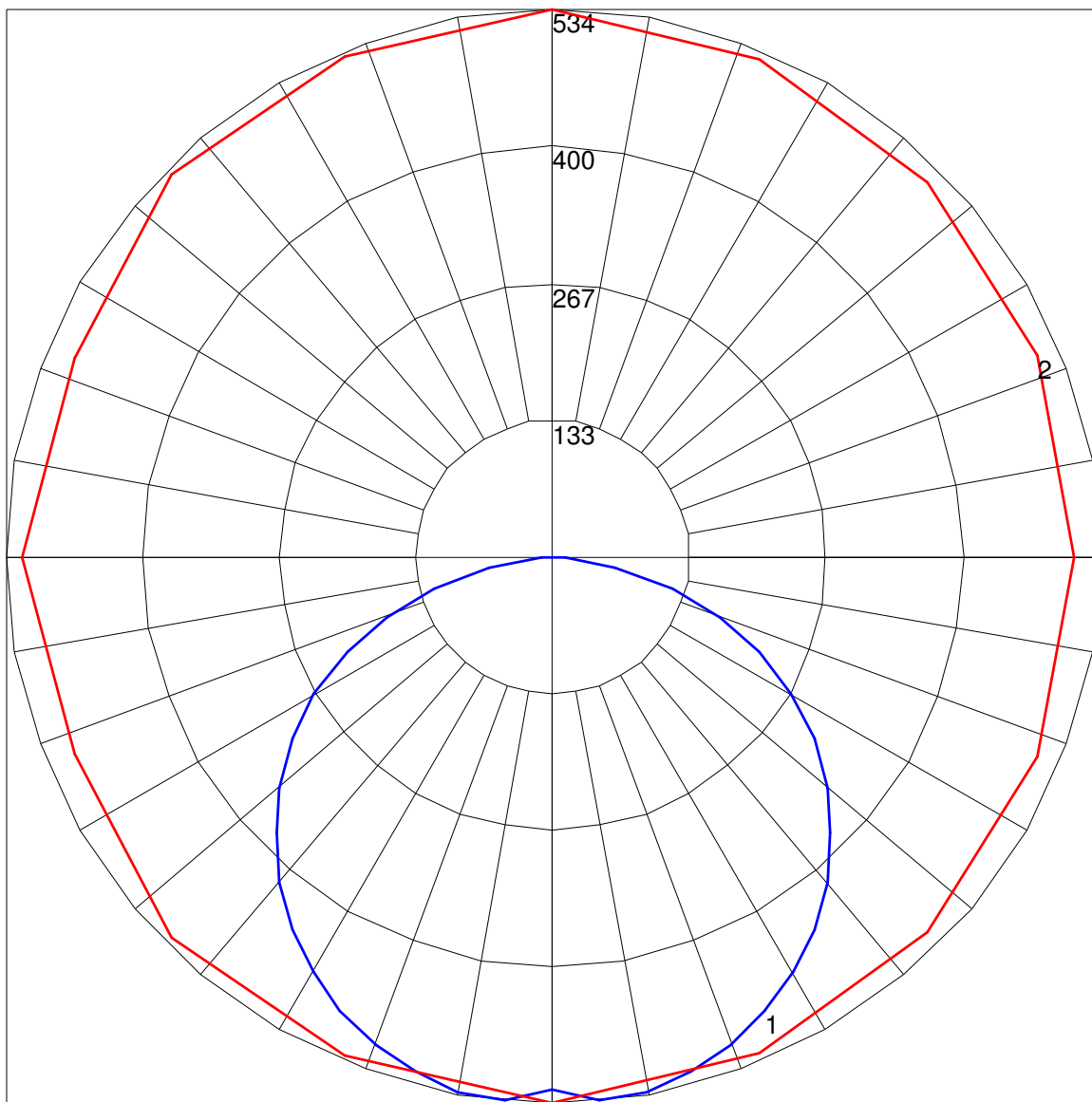
12H	4H	17.3	18.0	17.8	18.5	19.0	20.2	20.9	20.7	21.4	21.8
	6H	17.5	18.1	18.1	18.6	19.1	20.8	21.4	21.3	21.9	22.4
	8H	17.6	18.1	18.1	18.6	19.1	21.0	21.5	21.5	22.0	22.6

Maximum UGR = 22.7

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POLAR GRAPH



Maximum Candela = 533.563 Located At Horizontal Angle = 90, Vertical Angle = 5

1 - Vertical Plane Through Horizontal Angles (90 - 270) (Through Max. Cd.)

2 - Horizontal Cone Through Vertical Angle (5) (Through Max. Cd.)