

IES INDOOR REPORT

PHOTOMETRIC FILENAME : PXX-42-3-08-L10-RGB835-S-XXXX-XXXX-DMX-UNV WHITE ONLY_.IES

DESCRIPTION INFORMATION (From Photometric File)

IESNA:LM-63-2002

[TEST] GEN from BALLABS TEST NO. 20584.0

[TESTLAB] BUILDING ACOUSTICS & LIGHTING LABORATORIES, INC

[ISSUEDATE] 8 DEC 2023

[MANUFAC] WILLIAMS INDOOR

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

[LUMINAIRE] 3'8" PERIMETER LUMINAIRE

[MORE] WHITE ASYM REFLECTOR w/OPEN BOTTOM

[LUMCAT] PXX-42-3-08-L10-RGB835-S-xxxx-xxxx-DMX-UNV white only

CHARACTERISTICS

Lumens Per Lamp	N.A. (absolute)
Total Lamp Lumens	N.A. (absolute)
Luminaire Lumens	3586
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	101
Total Luminaire Watts	35.57
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	9568	12247	14523
55	7708	9578	14525
65	5998	7370	14064
75	3643	4780	12568
85	0	794	3474

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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	1597.596	1597.596	1597.596	1597.596	1597.596	1597.596	1597.596	1597.596	1597.596
5	1555.112	1567.956	1584.752	1608.464	1634.152	1618.344	1614.392	1545.232	1587.716
10	1522.508	1534.364	1556.100	1591.668	1625.260	1606.488	1594.632	1524.484	1563.016
15	1476.072	1490.892	1517.568	1552.148	1596.608	1574.872	1558.076	1482.988	1511.640
20	1426.672	1441.492	1464.216	1506.700	1555.112	1530.412	1500.772	1407.900	1413.828
25	1372.332	1387.152	1405.924	1450.384	1503.736	1474.096	1418.768	1265.628	1235.988
30	1312.064	1319.968	1332.812	1378.260	1436.552	1401.972	1295.268	1017.640	911.924
35	1131.260	1208.324	1258.712	1292.304	1361.464	1316.016	1072.968	696.540	583.908
40	935.636	990.964	1170.780	1206.348	1275.508	1204.372	793.364	404.092	598.728
45	772.616	824.980	988.988	1107.548	1172.756	1071.980	504.868	263.796	250.952
50	627.380	666.900	793.364	988.988	1071.980	899.080	463.372	218.348	215.384
55	504.868	529.568	627.380	872.404	951.444	668.876	209.456	185.744	191.672
60	388.284	416.936	482.144	706.420	824.980	408.044	169.936	174.876	185.744
65	289.484	306.280	355.680	501.904	678.756	229.216	147.212	164.008	172.900
70	187.720	199.576	247.000	326.040	531.544	124.488	132.392	140.296	142.272
75	107.692	115.596	141.284	197.600	371.488	89.908	104.728	105.716	103.740
80	42.484	51.376	63.232	92.872	190.684	68.172	66.196	64.220	61.256
85	0.000	1.976	7.904	18.772	34.580	24.700	23.712	20.748	22.724
90	0.000	0.000	0.000	0.000	0.000	0.000	0.988	0.000	0.000

IES INDOOR REPORT**PHOTOMETRIC FILENAME : PXX-42-3-08-L10-RGB835-S-XXXX-XXXX-DMX-UNV WHITE ONLY_.IES****ZONAL LUMEN SUMMARY**

Zone	Lumens	%Lamp	%Fxt
0-20	583.78	N.A.	16.30
0-30	1225.97	N.A.	34.20
0-40	1934.27	N.A.	53.90
0-60	3063.37	N.A.	85.40
0-80	3554.21	N.A.	99.10
0-90	3586.08	N.A.	100.00
10-90	3434.71	N.A.	95.80
20-40	1350.49	N.A.	37.70
20-50	1982.86	N.A.	55.30
40-70	1455.81	N.A.	40.60
60-80	490.85	N.A.	13.70
70-80	164.13	N.A.	4.60
80-90	31.87	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	3586.08	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	151.37
10-20	432.42
20-30	642.19
30-40	708.30
40-50	632.37
50-60	496.73
60-70	326.71
70-80	164.13
80-90	31.87
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	91	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	62	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	42	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	18.5	20.0	18.9	20.3	20.7	21.4	22.9	21.8	23.2	23.6
	3H	19.6	21.0	20.0	21.3	21.7	23.1	24.5	23.5	24.8	25.1
	4H	19.9	21.2	20.3	21.6	21.9	23.8	25.1	24.2	25.5	25.8
	6H	20.1	21.2	20.5	21.6	22.0	24.3	25.5	24.8	25.9	26.3
	8H	20.0	21.2	20.5	21.6	22.0	24.5	25.6	24.9	26.0	26.4
	12H	20.0	21.1	20.5	21.5	21.9	24.5	25.6	24.9	25.9	26.4

UGR Viewed Endwise

4H	2H	19.2	20.5	19.6	20.8	21.2	21.4	22.7	21.8	23.1	23.5
	3H	20.5	21.5	20.9	21.9	22.3	23.3	24.3	23.7	24.7	25.1
	4H	20.8	21.8	21.3	22.2	22.6	24.0	25.0	24.4	25.4	25.8
	6H	21.0	21.8	21.5	22.3	22.7	24.6	25.4	25.1	25.9	26.3
	8H	21.0	21.8	21.5	22.2	22.7	24.8	25.6	25.2	26.0	26.5
	12H	21.0	21.7	21.5	22.2	22.6	24.8	25.5	25.3	26.0	26.5

8H	4H	21.1	21.9	21.6	22.3	22.8	24.0	24.8	24.5	25.2	25.7
	6H	21.3	22.0	21.8	22.4	22.9	24.6	25.3	25.1	25.8	26.2
	8H	21.3	21.9	21.8	22.4	22.9	24.8	25.4	25.3	25.9	26.4
	12H	21.3	21.8	21.8	22.3	22.9	24.9	25.4	25.4	25.9	26.5

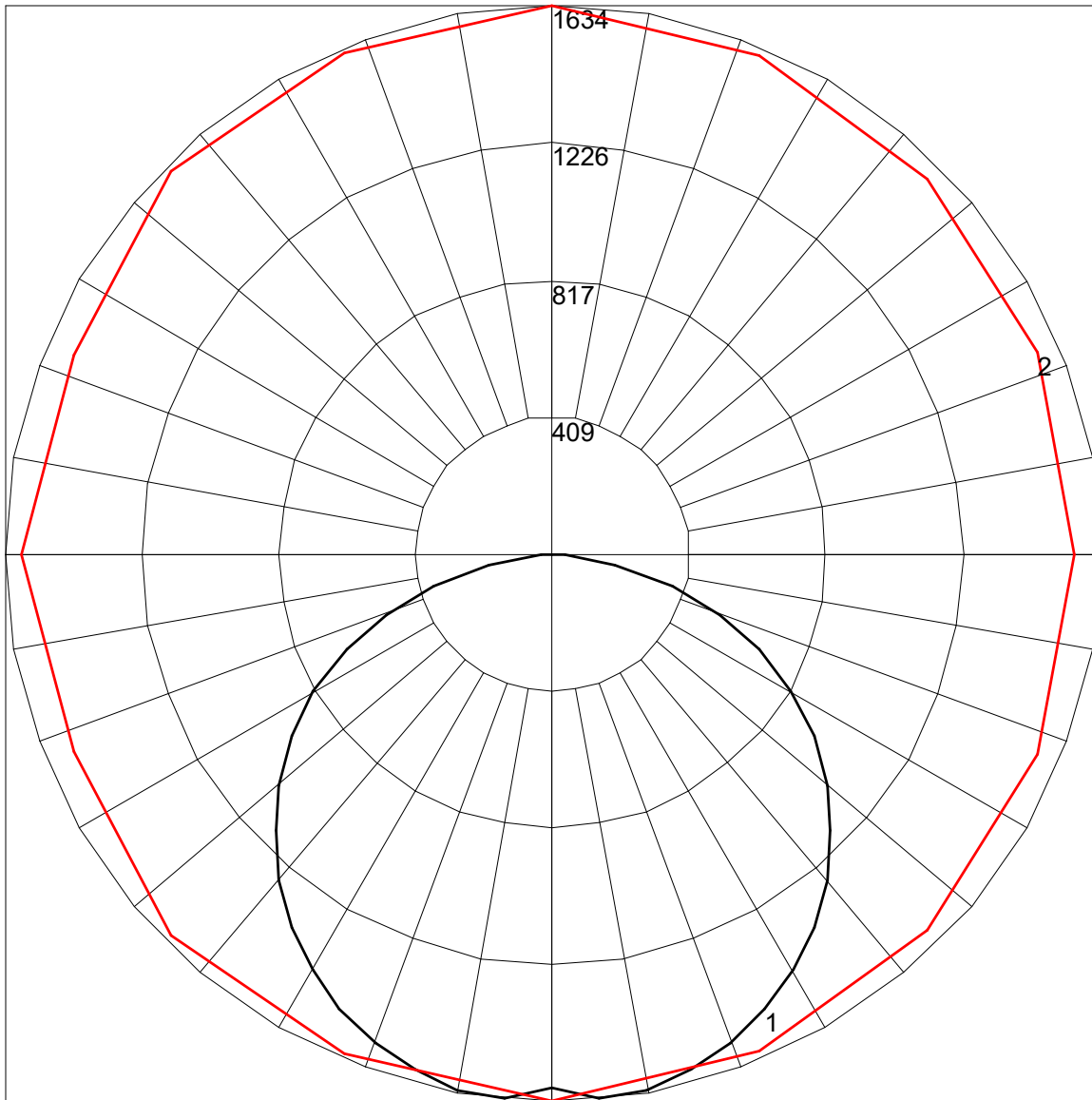
12H	4H	21.1	21.8	21.6	22.3	22.8	24.0	24.7	24.5	25.2	25.6
	6H	21.3	21.9	21.9	22.4	22.9	24.6	25.2	25.1	25.7	26.2
	8H	21.4	21.9	21.9	22.4	22.9	24.8	25.3	25.3	25.8	26.4

Maximum UGR = 26.5

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POLAR GRAPH



Maximum Candela = 1634.152 Located At Horizontal Angle = 90, Vertical Angle = 5

1 - Vertical Plane Through Horizontal Angles (90 - 270)

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