

IES INDOOR REPORT

PHOTOMETRIC FILENAME : PXX-62-3-08-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. 20590.0

[TESTLAB] BUILDING ACOUSTICS & LIGHTING LABORATORIES, INC

[ISSUE DATE] 8 DEC 2023

[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-62-3-08-L10-RGB835-S-xxxx-xxxx-DMX-UNV white only

[_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	3682
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	104
Total Luminaire Watts	35.57
Ballast Factor	1.00
CIE Type	Direct
Spacing Criterion (0-180)	1.24
Spacing Criterion (90-270)	1.34
Spacing Criterion (Diagonal)	1.20
Basic Luminous Shape	Rectangular
Luminous Length (0-180)	0.50 ft
Luminous Width (90-270)	3.68 ft
Luminous Height	0.00 ft

LUMINANCE DATA (cd/sq.m)

Angle In Degrees	Average 0-Deg	Average 45-Deg	Average 90-Deg
45	9063	9088	9924
55	8808	8890	9879
65	6268	7818	9423
75	3524	4722	7953
85	0	268	1677

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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	1626.512	1626.512	1626.512	1626.512	1626.512	1626.512	1626.512	1626.512	1626.512
5	1585.524	1589.523	1606.518	1635.509	1675.497	1653.504	1640.508	1567.530	1609.517
10	1550.535	1557.533	1578.526	1617.515	1665.500	1641.507	1611.516	1533.540	1565.530
15	1508.547	1510.547	1535.539	1580.526	1631.510	1607.518	1567.530	1474.558	1490.553
20	1458.562	1463.561	1481.555	1528.541	1593.522	1552.534	1497.551	1376.587	1336.599
25	1404.579	1404.579	1422.573	1464.561	1535.539	1485.554	1382.585	1174.648	1067.680
30	1343.597	1342.597	1353.594	1396.581	1471.558	1404.579	1229.631	889.733	692.792
35	1278.616	1272.618	1270.619	1314.606	1395.581	1302.609	966.710	509.847	327.902
40	1193.642	1189.643	1189.643	1211.636	1304.609	1168.649	634.810	258.922	200.940
45	1095.671	1091.672	1098.670	1115.665	1199.640	1022.693	317.905	172.948	156.953
50	1001.699	994.702	994.702	999.700	1096.671	800.760	180.946	136.959	123.963
55	863.741	894.732	871.738	893.732	968.709	542.837	133.960	108.967	114.966
60	634.810	666.800	755.773	742.777	840.748	268.919	98.970	101.969	110.967
65	452.864	468.859	564.831	579.826	680.796	114.966	88.973	97.971	105.968
70	291.912	309.907	362.891	471.858	532.840	74.978	82.975	92.972	97.971
75	155.953	169.949	208.937	313.906	351.894	54.984	71.978	77.977	77.977
80	56.983	61.981	81.975	134.960	175.947	41.987	49.985	49.985	48.985
85	0.000	1.000	3.999	19.994	24.993	18.994	20.994	20.994	18.994
90	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000

IES INDOOR REPORT**PHOTOMETRIC FILENAME : PXX-62-3-08-L10-RGB835-S-XXXX-XXXX-DMX-UNV WHITE ONLY_.IES****ZONAL LUMEN SUMMARY**

Zone	Lumens	%Lamp	%Fixt
0-20	590.83	N.A.	16.00
0-30	1227.9	N.A.	33.30
0-40	1920.5	N.A.	52.20
0-60	3107.94	N.A.	84.40
0-80	3651.98	N.A.	99.20
0-90	3682.26	N.A.	100.00
10-90	3528.39	N.A.	95.80
20-40	1329.66	N.A.	36.10
20-50	1974.17	N.A.	53.60
40-70	1550.01	N.A.	42.10
60-80	544.03	N.A.	14.80
70-80	181.47	N.A.	4.90
80-90	30.29	N.A.	0.80
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	3682.26	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	153.87
10-20	436.96
20-30	637.06
30-40	692.60
40-50	644.51
50-60	542.94
60-70	362.56
70-80	181.47
80-90	30.29
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	98	107	103	100	97	99	96	94	95	93	91	92	90	88	86
2	101	93	87	82	98	91	86	81	88	83	79	85	81	77	82	78	75	73
3	92	83	75	69	90	81	74	68	78	72	67	75	70	66	73	69	65	63
4	85	74	66	59	83	73	65	59	70	63	58	68	62	57	66	61	57	55
5	79	66	58	52	77	65	57	51	63	56	51	61	55	50	60	54	50	48
6	73	60	52	46	71	59	51	45	58	50	45	56	50	45	54	49	44	42
7	68	55	47	41	66	54	46	41	53	45	40	51	45	40	50	44	40	38
8	63	50	42	37	62	50	42	36	48	41	36	47	41	36	46	40	36	34
9	59	46	38	33	58	46	38	33	45	38	33	44	37	33	43	37	33	31
10	56	43	35	30	54	42	35	30	41	35	30	41	34	30	40	34	30	28

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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	20.5	22.0	20.8	22.3	22.6	19.6	21.2	20.0	21.5	21.8
	3H	21.5	22.9	21.9	23.2	23.6	21.6	23.0	22.0	23.3	23.7
	4H	21.7	23.0	22.1	23.4	23.8	22.4	23.7	22.8	24.0	24.4
	6H	21.8	23.0	22.2	23.4	23.8	22.8	24.0	23.3	24.4	24.8
	8H	21.8	22.9	22.2	23.3	23.7	22.9	24.1	23.4	24.5	24.9
	12H	21.8	22.9	22.2	23.2	23.7	23.0	24.1	23.4	24.4	24.9

UGR Viewed Endwise

4H	2H	21.1	22.4	21.5	22.7	23.1	20.0	21.3	20.4	21.6	22.0
	3H	22.3	23.3	22.7	23.7	24.1	22.1	23.1	22.5	23.5	24.0
	4H	22.5	23.5	23.0	23.9	24.4	22.9	23.9	23.3	24.3	24.7
	6H	22.7	23.5	23.1	24.0	24.4	23.5	24.3	23.9	24.7	25.2
	8H	22.7	23.4	23.1	23.9	24.4	23.6	24.4	24.0	24.8	25.3
	12H	22.6	23.3	23.1	23.8	24.3	23.6	24.3	24.1	24.8	25.3

8H	4H	22.8	23.6	23.2	24.0	24.5	23.0	23.7	23.4	24.2	24.7
	6H	22.9	23.6	23.4	24.0	24.5	23.5	24.2	24.0	24.7	25.2
	8H	22.9	23.5	23.4	24.0	24.5	23.7	24.3	24.2	24.8	25.3
	12H	22.9	23.4	23.4	23.9	24.4	23.7	24.2	24.2	24.7	25.3

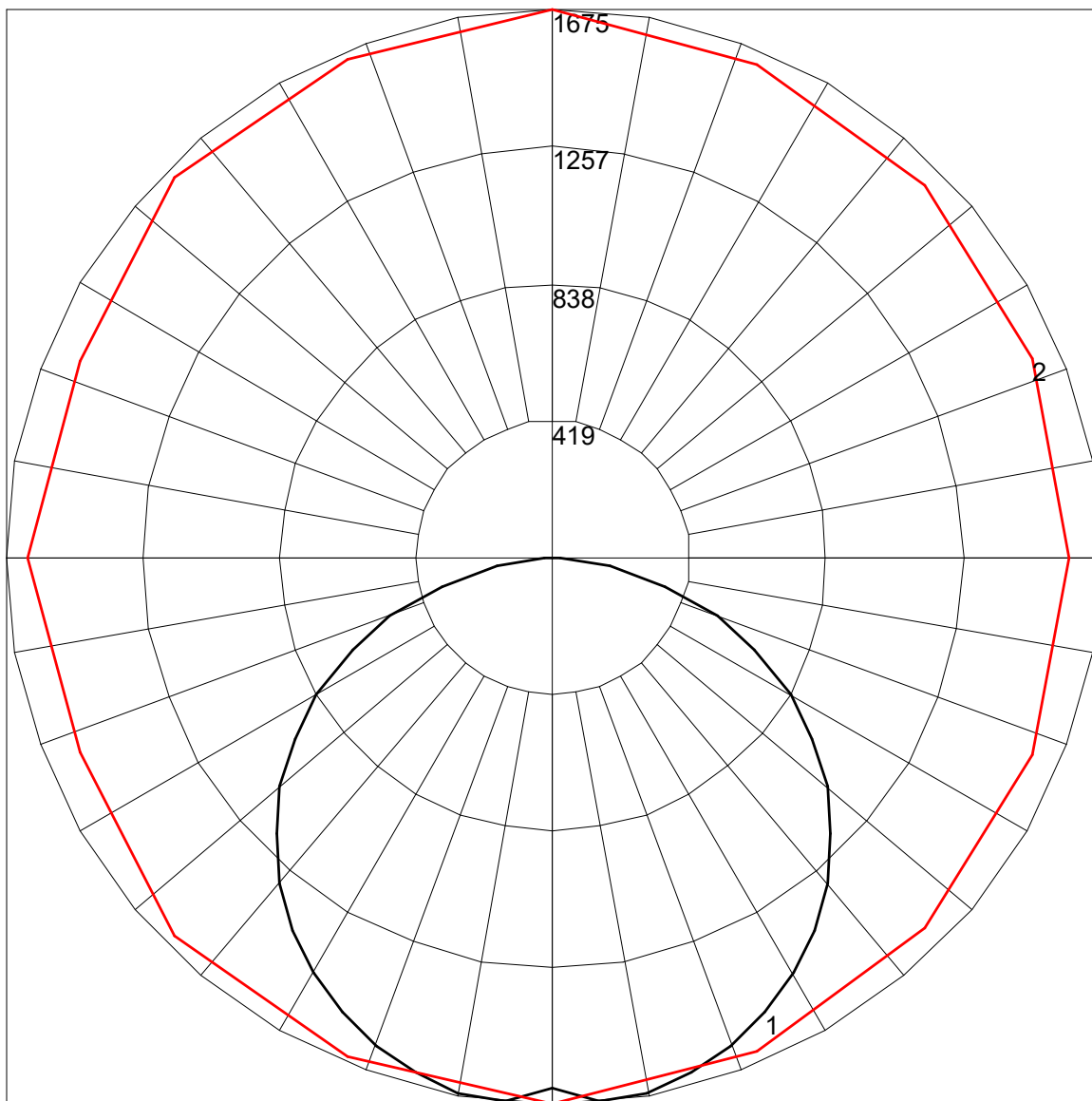
12H	4H	22.8	23.5	23.3	24.0	24.4	22.9	23.6	23.4	24.1	24.6
	6H	22.9	23.5	23.4	24.0	24.5	23.5	24.1	24.0	24.6	25.1
	8H	22.9	23.4	23.4	23.9	24.5	23.7	24.2	24.2	24.7	25.2

Maximum UGR = 25.3

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POLAR GRAPH



Maximum Candela = 1675.497 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.)