



IES INDOOR REPORT

PHOTOMETRIC FILENAME : PXX-46-7-04-L4-835-W-XXXX-XXXX-DIM-UNV_.IES

DESCRIPTION INFORMATION (From Photometric File)

IESNA:LM-63-2002
 [TEST] GEN FROM BALLABS TEST NO. 20588.0
 [TESTLAB] BUILDING ACOUSTICS & LIGHTING LABORATORIES, INC
 [ISSUEDATE] 18-DEC-2018
 [MANUFAC] WILLIAMS INDOOR
 [OTHER] H.E. WILLIAMS, INC - CARTHAGE, MO
 [LUMINAIRE] 2-56 LED 22"ARRAYS PERIMETER LUMINAIRE
 [MORE] WHITE ASYM REFL AND FROSTED LENS w/OPEN BOTTOM
 [MORE] ADVANCE #XI040C110V054BST1 @ 800mA
 [LUMCAT] PXX-46-7-04-L4-835-W-xxxx-xxxx-DIM-UNV
 [LAMPCAT] HLM2256-5630 REV B 10560227

CHARACTERISTICS

Lumens Per Lamp	N.A. (absolute)
Total Lamp Lumens	N.A. (absolute)
Luminaire Lumens	2324
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	73
Total Luminaire Watts	32
Ballast Factor	1.00
CIE Type	Direct
Spacing Criterion (0-180)	0.46
Spacing Criterion (90-270)	1.18
Spacing Criterion (Diagonal)	0.72
Basic Luminous Shape	Rectangular
Luminous Length (0-180)	0.33 ft
Luminous Width (90-270)	7.33 ft
Luminous Height	0.00 ft

LUMINANCE DATA (cd/sq.m)

Angle In Degrees	Average 0-Deg	Average 45-Deg	Average 90-Deg
45	1953	2018	6588
55	1570	1927	5277
65	1187	1487	4111
75	805	1037	2729
85	324	446	891

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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	1983.981	1983.981	1983.981	1983.981	1983.981	1983.981	1983.981	1983.981	1983.981
5	1932.657	1936.667	1958.319	1979.169	1999.217	2014.454	2037.710	2035.304	2030.493
10	1522.870	1606.271	1847.652	1940.676	1959.121	2001.623	2032.899	2014.454	1977.565
15	696.077	838.019	1388.947	1869.304	1892.560	1953.507	1948.696	1684.058	1489.990
20	449.082	485.971	755.420	1674.435	1804.348	1878.928	1643.159	971.942	749.807
25	332.802	336.812	485.169	1346.444	1681.652	1769.865	1063.362	558.145	464.319
30	345.633	339.217	352.048	955.903	1555.749	1615.092	640.744	401.768	394.551
35	364.879	351.246	317.565	607.865	1410.599	1352.058	433.043	372.899	345.633
40	352.850	353.652	319.971	414.599	1233.372	1013.643	360.068	303.130	273.459
45	313.556	319.169	323.981	309.546	1057.749	685.652	316.763	239.778	215.720
50	259.826	270.251	297.517	250.203	873.304	449.884	254.213	189.256	174.821
55	204.493	215.720	251.005	235.768	687.256	297.517	185.246	151.565	140.338
60	157.179	164.396	196.473	222.937	535.691	237.372	143.546	119.488	112.271
65	113.874	118.686	142.744	186.048	394.551	174.019	106.657	89.816	83.401
70	76.986	80.995	97.836	133.923	270.251	112.271	74.580	64.155	58.541
75	47.314	52.126	60.947	80.995	160.386	68.164	47.314	41.700	36.889
80	23.256	23.256	29.671	40.097	72.174	35.285	25.662	20.850	17.643
85	6.415	7.217	8.821	11.227	17.643	9.623	4.812	3.208	0.802
90	0.000	0.000	0.000	0.802	0.000	0.000	0.000	0.802	0.000

IES INDOOR REPORT**PHOTOMETRIC FILENAME : PXX-46-7-04-L4-835-W-XXXX-XXXX-DIM-UNV_.IES****ZONAL LUMEN SUMMARY**

Zone	Lumens	%Lamp	%Fixt
0-20	624.48	N.A.	26.90
0-30	1072.72	N.A.	46.20
0-40	1481.51	N.A.	63.70
0-60	2072.34	N.A.	89.20
0-80	2310.56	N.A.	99.40
0-90	2324.21	N.A.	100.00
10-90	2137.62	N.A.	92.00
20-40	857.03	N.A.	36.90
20-50	1197.84	N.A.	51.50
40-70	754.03	N.A.	32.40
60-80	238.22	N.A.	10.20
70-80	75.02	N.A.	3.20
80-90	13.65	N.A.	0.60
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	2324.21	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	186.59
10-20	437.89
20-30	448.24
30-40	408.79
40-50	340.81
50-60	250.01
60-70	163.20
70-80	75.02
80-90	13.65
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	111	107	104	101	109	105	102	99	101	98	96	97	95	93	94	92	91	89
2	103	97	91	86	101	95	90	85	91	87	83	88	85	82	85	82	80	78
3	96	87	81	75	94	86	80	75	83	78	73	80	76	72	78	74	71	69
4	89	79	72	66	87	78	71	66	76	70	65	74	69	64	72	67	64	62
5	83	73	65	59	82	72	64	59	70	63	59	68	62	58	66	61	57	56
6	78	67	59	54	76	66	59	54	64	58	53	63	57	53	61	56	52	51
7	73	62	54	49	72	61	54	49	60	53	49	58	53	48	57	52	48	46
8	69	57	50	45	68	57	50	45	56	49	45	54	49	44	53	48	44	43
9	65	54	46	42	64	53	46	42	52	46	41	51	45	41	50	45	41	39
10	62	50	43	39	61	50	43	39	49	43	39	48	42	38	47	42	38	37

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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

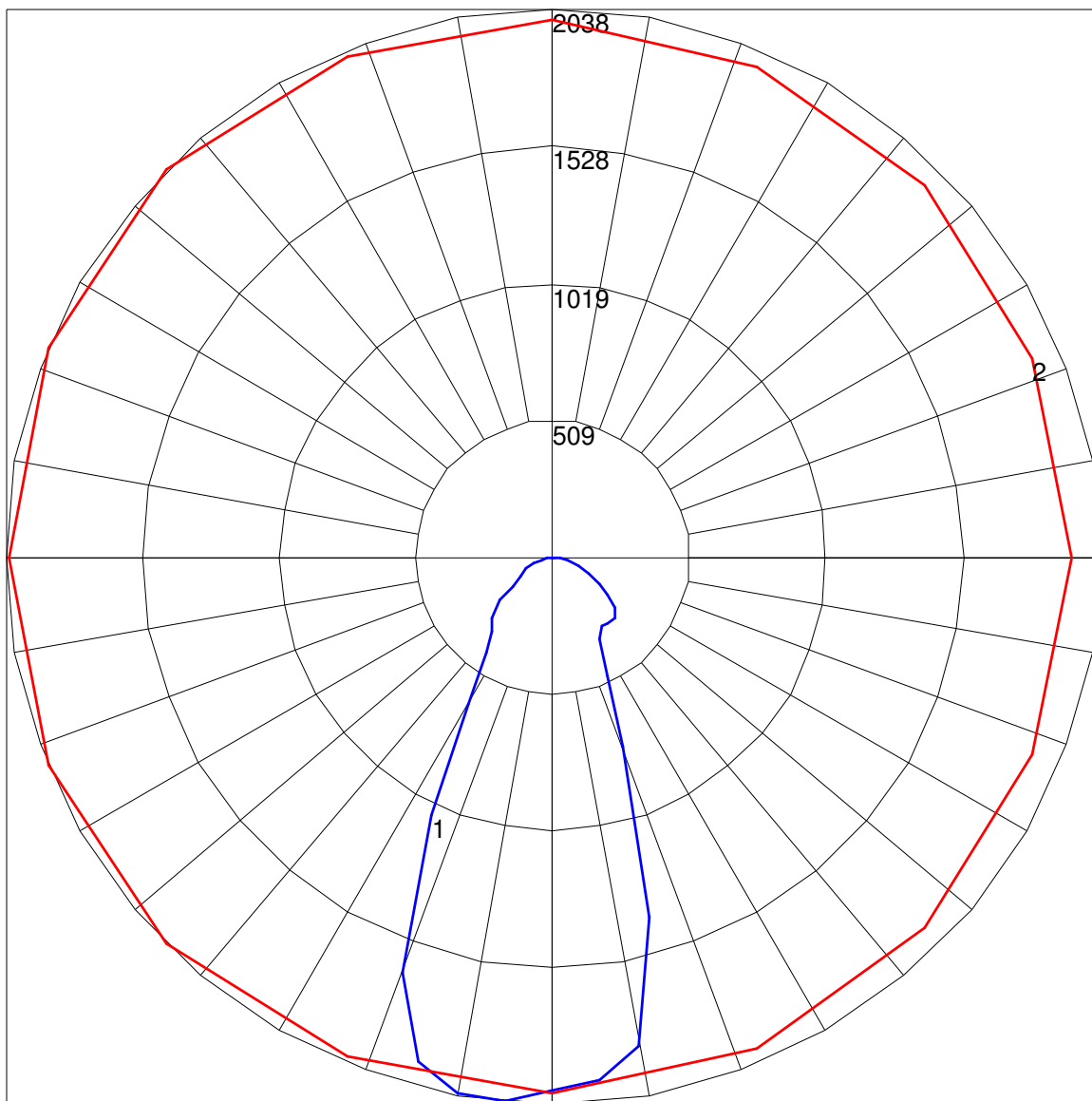
X=2H	Y=2H	11.4	12.8	11.8	13.1	13.5	15.0	16.4	15.4	16.7	17.0
	3H	12.6	13.8	12.9	14.1	14.5	17.2	18.5	17.6	18.8	19.2
	4H	12.9	14.1	13.3	14.4	14.8	17.9	19.1	18.3	19.4	19.8
	6H	13.1	14.2	13.5	14.5	14.9	18.3	19.3	18.7	19.7	20.1
	8H	13.1	14.1	13.6	14.5	14.9	18.4	19.4	18.8	19.8	20.2
	12H	13.1	14.1	13.5	14.5	14.9	18.4	19.3	18.8	19.7	20.2

UGR Viewed Endwise

4H	2H	12.1	13.3	12.5	13.6	14.0	15.1	16.2	15.5	16.6	17.0
	3H	13.4	14.3	13.8	14.7	15.2	17.3	18.3	17.7	18.7	19.1
	4H	13.8	14.7	14.2	15.1	15.5	18.0	18.9	18.5	19.3	19.8
	6H	14.1	14.8	14.5	15.2	15.7	18.5	19.3	19.0	19.7	20.2
	8H	14.1	14.8	14.5	15.2	15.7	18.6	19.3	19.1	19.8	20.2
	12H	14.1	14.7	14.6	15.2	15.7	18.7	19.3	19.2	19.8	20.2
8H	4H	14.1	14.8	14.5	15.2	15.7	18.0	18.7	18.5	19.2	19.6
	6H	14.4	15.0	14.9	15.4	15.9	18.5	19.1	19.0	19.6	20.1
	8H	14.5	15.0	15.0	15.5	16.0	18.6	19.2	19.2	19.7	20.2
	12H	14.5	14.9	15.0	15.4	16.0	18.7	19.2	19.2	19.7	20.2
12H	4H	14.1	14.7	14.6	15.2	15.7	18.0	18.6	18.5	19.1	19.6
	6H	14.4	14.9	15.0	15.4	15.9	18.5	19.0	19.0	19.5	20.0
	8H	14.5	15.0	15.0	15.5	16.0	18.6	19.1	19.1	19.6	20.1

Maximum UGR = 20.2

POLAR GRAPH



Maximum Candela = 2037.71 Located At Horizontal Angle = 135, Vertical Angle = 5
1 - Vertical Plane Through Horizontal Angles (135 - 315) (Through Max. Cd.)
2 - Horizontal Cone Through Vertical Angle (5) (Through Max. Cd.)