



IES INDOOR REPORT

PHOTOMETRIC FILENAME : PXX-42-3-08-L13-840-S-XXXX-XXXX-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] 11-03-2020
 [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-L13-840-S-xxxx-xxxx-DIM-UNV
 [LAMPCAT] HLM 80 CRI, 3500K 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	5151
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	100
Total Luminaire Watts	51.3
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	13742	17590	20858
55	11070	13756	20862
65	8615	10584	20199
75	5233	6865	18051
85	0	1141	4990

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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	2294.549	2294.549	2294.549	2294.549	2294.549	2294.549	2294.549	2294.549	2294.549
5	2233.531	2251.978	2276.102	2310.158	2347.052	2324.348	2318.672	2219.341	2280.359
10	2186.704	2203.732	2234.950	2286.035	2334.281	2307.320	2290.292	2189.542	2244.883
15	2120.010	2141.295	2179.609	2229.274	2293.130	2261.912	2237.788	2129.943	2171.094
20	2049.059	2070.344	2102.982	2163.999	2233.531	2198.056	2155.485	2022.098	2030.612
25	1971.013	1992.298	2019.260	2083.115	2159.742	2117.172	2037.707	1817.760	1775.189
30	1884.453	1895.805	1914.253	1979.527	2063.249	2013.584	1860.330	1461.586	1309.752
35	1624.773	1735.457	1807.826	1856.073	1955.404	1890.129	1541.051	1000.406	838.638
40	1343.808	1423.273	1681.534	1732.619	1831.950	1729.781	1139.470	580.378	859.924
45	1109.671	1184.878	1420.435	1590.717	1684.372	1539.632	725.117	378.877	360.430
50	901.075	957.836	1139.470	1420.435	1539.632	1291.305	665.519	313.603	309.345
55	725.117	760.593	901.075	1252.991	1366.512	960.674	300.831	266.775	275.289
60	557.673	598.825	692.480	1014.596	1184.878	586.054	244.071	251.166	266.775
65	415.772	439.895	510.846	720.860	974.864	329.212	211.433	235.557	248.328
70	269.613	286.641	354.754	468.275	763.431	178.796	190.148	201.500	204.338
75	154.673	166.025	202.919	283.803	533.550	129.130	150.416	151.835	148.997
80	61.018	73.789	90.817	133.388	273.870	97.912	95.074	92.236	87.979
85	0.000	2.838	11.352	26.961	49.666	35.475	34.056	29.799	32.637
90	0.000	0.000	0.000	0.000	0.000	0.000	1.419	0.000	0.000

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ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixt
0-20	838.46	N.A.	16.30
0-30	1760.81	N.A.	34.20
0-40	2778.1	N.A.	53.90
0-60	4399.76	N.A.	85.40
0-80	5104.74	N.A.	99.10
0-90	5150.51	N.A.	100.00
10-90	4933.11	N.A.	95.80
20-40	1939.64	N.A.	37.70
20-50	2847.88	N.A.	55.30
40-70	2090.91	N.A.	40.60
60-80	704.98	N.A.	13.70
70-80	235.74	N.A.	4.60
80-90	45.77	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	5150.51	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	217.40
10-20	621.06
20-30	922.34
30-40	1017.29
40-50	908.24
50-60	713.42
60-70	469.24
70-80	235.74
80-90	45.77
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

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	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	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

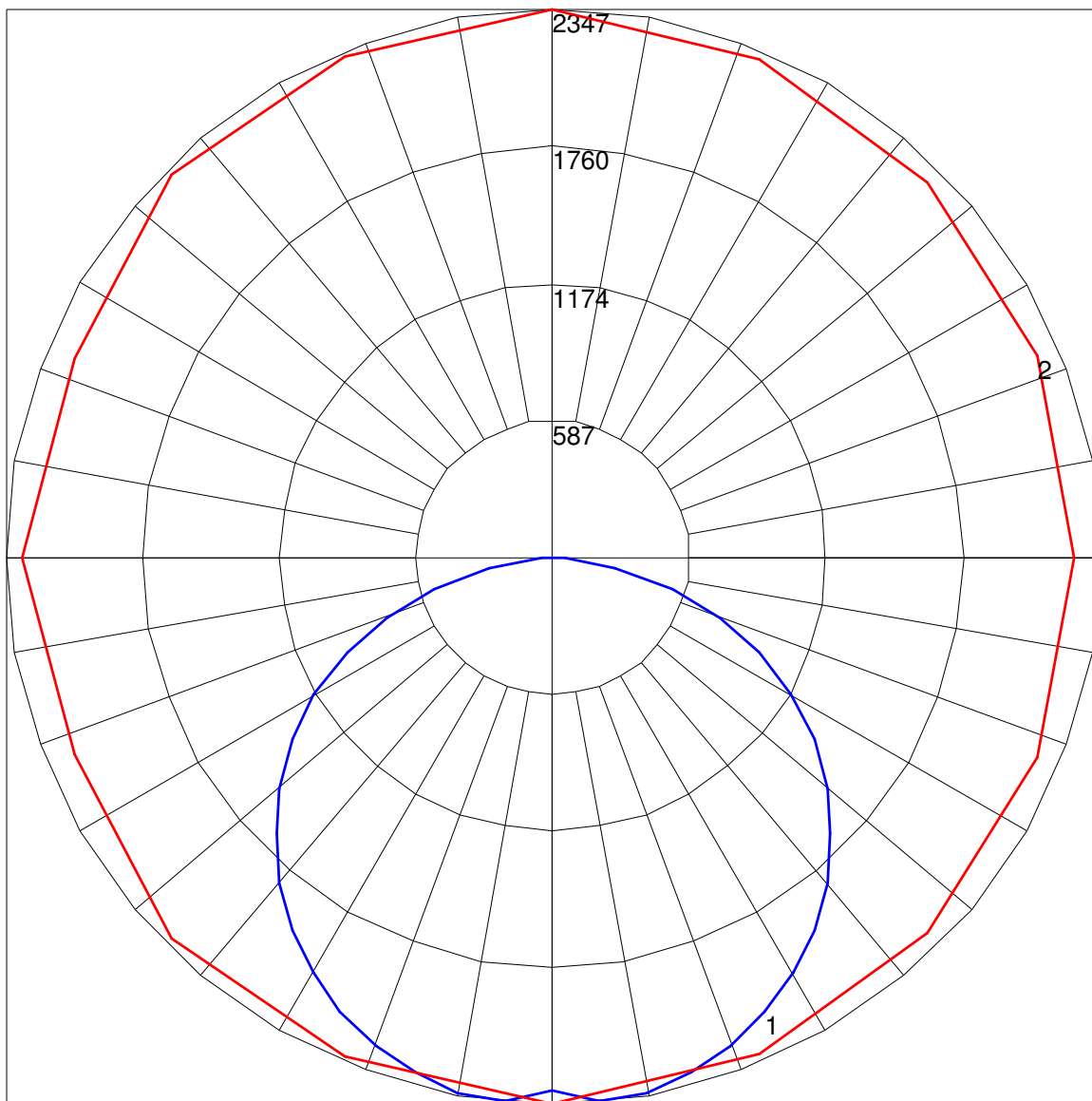
X=2H	Y=2H	19.8	21.3	20.2	21.6	22.0	22.7	24.2	23.1	24.5	24.9
	3H	20.9	22.3	21.3	22.6	23.0	24.4	25.8	24.8	26.1	26.4
	4H	21.2	22.5	21.6	22.9	23.2	25.1	26.4	25.5	26.8	27.1
	6H	21.4	22.5	21.8	22.9	23.3	25.6	26.8	26.1	27.2	27.6
	8H	21.3	22.5	21.8	22.9	23.3	25.8	26.9	26.2	27.3	27.7
	12H	21.3	22.4	21.8	22.8	23.2	25.8	26.9	26.2	27.2	27.7

UGR Viewed Endwise

4H	2H	20.5	21.8	20.9	22.1	22.5	22.7	24.0	23.1	24.4	24.8
	3H	21.8	22.8	22.2	23.2	23.6	24.6	25.6	25.0	26.0	26.4
	4H	22.1	23.1	22.6	23.5	23.9	25.3	26.3	25.7	26.7	27.1
	6H	22.3	23.1	22.8	23.6	24.0	25.9	26.7	26.4	27.2	27.6
	8H	22.3	23.1	22.8	23.5	24.0	26.1	26.9	26.5	27.3	27.8
	12H	22.3	23.0	22.8	23.5	23.9	26.1	26.8	26.6	27.3	27.8
8H	4H	22.4	23.2	22.9	23.6	24.1	25.3	26.1	25.8	26.5	27.0
	6H	22.6	23.3	23.1	23.7	24.2	25.9	26.6	26.4	27.1	27.5
	8H	22.6	23.2	23.1	23.7	24.2	26.1	26.7	26.6	27.2	27.7
	12H	22.6	23.1	23.1	23.6	24.2	26.2	26.7	26.7	27.2	27.8
12H	4H	22.4	23.1	22.9	23.6	24.1	25.3	26.0	25.8	26.5	26.9
	6H	22.6	23.2	23.2	23.7	24.2	25.9	26.5	26.4	27.0	27.5
	8H	22.7	23.2	23.2	23.7	24.2	26.1	26.6	26.6	27.1	27.7

Maximum UGR = 27.8

POLAR GRAPH



Maximum Candela = 2347.052 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.)