



IES INDOOR REPORT

PHOTOMETRIC FILENAME : PX[G;F]-46-03-08-L7-9TW-W-DIM-UNV_4000K.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] 05-MAY-2022
 [MANUFAC] WILLIAMS INDOOR
 [OTHER] H.E. WILLIAMS, INC - CARTHAGE, MO
 [LUMINAIRE] 2-56 LED 22"ARRAYS 3'8" PERIMETER LUMINAIRE
 [MORE] WHITE ASYM REFL AND FROSTED LENS w/OPEN BOTTOM
 [LUMCAT] PX-46-3-08-L7-9TW-W-OPTIONS-DIM-UNV
 [LAMPCAT] HLM 90 CRI TUNABLE WHITE CCT

CHARACTERISTICS

Lumens Per Lamp	N.A. (absolute)
Total Lamp Lumens	N.A. (absolute)
Luminaire Lumens	1694
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	66
Total Luminaire Watts	25.6
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)	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	2839	2933	9576
55	2282	2802	7671
65	1725	2162	5977
75	1170	1507	3967
85	471	648	1296

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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	1446.155	1446.155	1446.155	1446.155	1446.155	1446.155	1446.155	1446.155	1446.155
5	1408.744	1411.667	1427.449	1442.647	1457.261	1468.367	1485.319	1483.565	1480.058
10	1110.044	1170.836	1346.783	1414.589	1428.034	1459.015	1481.812	1468.367	1441.478
15	507.382	610.845	1012.425	1362.565	1379.517	1423.942	1420.435	1227.536	1086.077
20	327.343	354.232	550.638	1220.522	1315.217	1369.580	1197.725	708.464	546.546
25	242.585	245.507	353.647	981.444	1225.783	1290.082	775.101	406.841	338.449
30	251.937	247.261	256.614	696.773	1134.010	1177.266	467.048	292.855	287.594
35	265.966	256.029	231.478	443.082	1028.208	985.536	315.652	271.812	251.937
40	257.198	257.783	233.232	302.208	899.024	738.860	262.459	220.957	199.329
45	228.556	232.647	236.155	225.633	771.010	499.783	230.894	174.778	157.242
50	189.391	196.990	216.865	182.377	636.565	327.928	185.300	137.952	127.430
55	149.058	157.242	182.961	171.855	500.952	216.865	135.029	110.478	102.295
60	114.570	119.831	143.213	162.502	390.473	173.024	104.633	87.097	81.836
65	83.005	86.512	104.048	135.614	287.594	126.845	77.744	65.469	60.792
70	56.116	59.039	71.314	97.618	196.990	81.836	54.362	46.763	42.671
75	34.488	37.995	44.425	59.039	116.908	49.686	34.488	30.396	26.889
80	16.952	16.952	21.628	29.227	52.609	25.720	18.705	15.198	12.860
85	4.676	5.261	6.430	8.184	12.860	7.014	3.507	2.338	0.585
90	0.000	0.000	0.000	0.585	0.000	0.000	0.000	0.585	0.000

IES INDOOR REPORT**PHOTOMETRIC FILENAME : PX[G;F]-46-03-08-L7-9TW-W-DIM-UNV_4000K.IES****ZONAL LUMEN SUMMARY**

Zone	Lumens	%Lamp	%Fixt
0-20	455.19	N.A.	26.90
0-30	781.92	N.A.	46.20
0-40	1079.9	N.A.	63.70
0-60	1510.56	N.A.	89.20
0-80	1684.2	N.A.	99.40
0-90	1694.15	N.A.	100.00
10-90	1558.15	N.A.	92.00
20-40	624.70	N.A.	36.90
20-50	873.12	N.A.	51.50
40-70	549.62	N.A.	32.40
60-80	173.65	N.A.	10.20
70-80	54.68	N.A.	3.20
80-90	9.95	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	1694.15	N.A.	100.00

Total Luminaire Efficiency = N.A.%

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	136.01
10-20	319.19
20-30	326.73
30-40	297.98
40-50	248.42
50-60	182.24
60-70	118.96
70-80	54.68
80-90	9.95
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	12.7	14.1	13.1	14.4	14.8	16.3	17.7	16.7	18.0	18.3
	3H	13.9	15.1	14.2	15.4	15.8	18.5	19.8	18.9	20.1	20.5
	4H	14.2	15.4	14.6	15.7	16.1	19.2	20.4	19.6	20.7	21.1
	6H	14.4	15.5	14.8	15.8	16.2	19.6	20.6	20.0	21.0	21.4
	8H	14.4	15.4	14.8	15.8	16.2	19.7	20.7	20.1	21.1	21.5
	12H	14.4	15.4	14.8	15.8	16.2	19.7	20.6	20.1	21.0	21.4

UGR Viewed Endwise

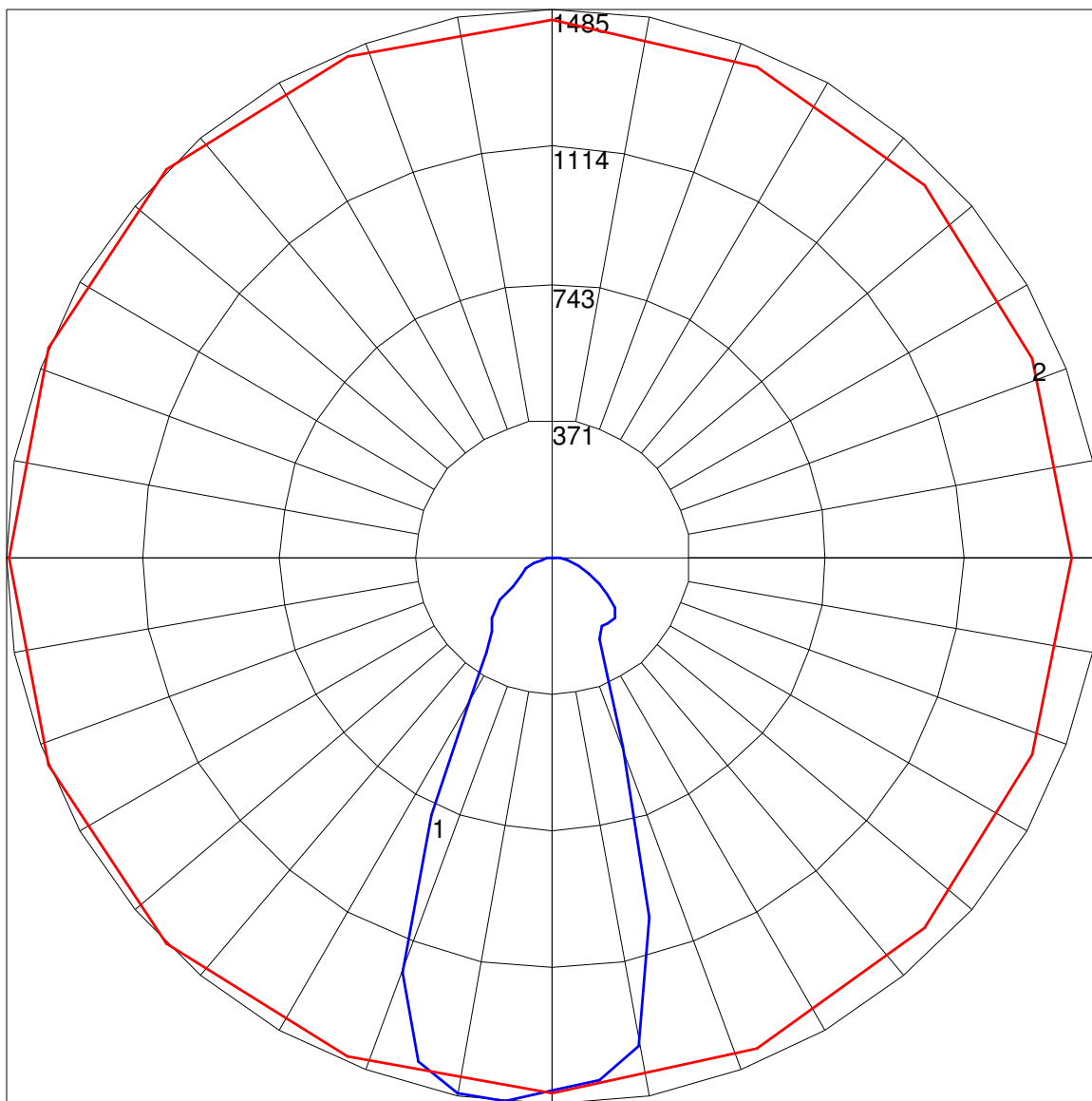
4H	2H	13.4	14.5	13.8	14.9	15.3	16.4	17.5	16.8	17.9	18.3
	3H	14.7	15.6	15.1	16.0	16.4	18.6	19.6	19.0	20.0	20.4
	4H	15.1	16.0	15.5	16.4	16.8	19.3	20.2	19.8	20.6	21.1
	6H	15.4	16.1	15.8	16.5	17.0	19.8	20.6	20.3	21.0	21.5
	8H	15.4	16.1	15.8	16.5	17.0	19.9	20.6	20.4	21.1	21.5
	12H	15.4	16.0	15.9	16.5	17.0	20.0	20.6	20.4	21.1	21.5

8H	4H	15.4	16.1	15.8	16.5	17.0	19.3	20.0	19.8	20.5	20.9
	6H	15.7	16.2	16.2	16.7	17.2	19.8	20.4	20.3	20.9	21.4
	8H	15.7	16.3	16.3	16.8	17.3	19.9	20.5	20.5	21.0	21.5
	12H	15.8	16.2	16.3	16.7	17.3	20.0	20.5	20.5	20.9	21.5

12H	4H	15.4	16.0	15.9	16.5	17.0	19.3	19.9	19.8	20.4	20.9
	6H	15.7	16.2	16.2	16.7	17.2	19.8	20.3	20.3	20.8	21.3
	8H	15.8	16.3	16.3	16.8	17.3	19.9	20.4	20.4	20.9	21.4

Maximum UGR = 21.5

POLAR GRAPH



Maximum Candela = 1485.319 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.)