



IES INDOOR REPORT

PHOTOMETRIC FILENAME : PXF-42-03-08-L4-8TW-S-DIM-UNV 4000K_.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] 10-JUL-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] PXF-42-03-08-L4-8TW-S-DIM-UNV 4000k

[LAMPCAT] HLM 80 CRI, TUNABLE WHITE LED

[_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	1430
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	108
Total Luminaire Watts	13.2
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	3815	4883	5791
55	3073	3819	5792
65	2392	2938	5607
75	1453	1906	5011
85	0	317	1385

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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	637.000	637.000	637.000	637.000	637.000	637.000	637.000	637.000	637.000
5	620.060	625.182	631.879	641.333	651.576	645.273	643.697	616.121	633.060
10	607.060	611.788	620.454	634.636	648.030	640.545	635.818	607.848	623.212
15	588.545	594.454	605.091	618.879	636.606	627.939	621.242	591.303	602.727
20	568.848	574.757	583.818	600.757	620.060	610.212	598.394	561.363	563.727
25	547.182	553.091	560.576	578.303	599.576	587.757	565.697	504.636	492.818
30	523.151	526.303	531.424	549.545	572.788	559.000	516.454	405.757	363.606
35	451.060	481.788	501.879	515.273	542.848	524.727	427.818	277.727	232.818
40	373.061	395.121	466.818	481.000	508.576	480.212	316.333	161.121	238.727
45	308.061	328.939	394.333	441.606	467.606	427.424	201.303	105.182	100.061
50	250.151	265.909	316.333	394.333	427.424	358.485	184.758	87.061	85.879
55	201.303	211.151	250.151	347.848	379.364	266.697	83.515	74.061	76.424
60	154.818	166.242	192.242	281.667	328.939	162.697	67.758	69.727	74.061
65	115.424	122.121	141.818	200.121	270.636	91.394	58.697	65.394	68.939
70	74.848	79.576	98.485	130.000	211.939	49.636	52.788	55.939	56.727
75	42.939	46.091	56.333	78.788	148.121	35.848	41.758	42.152	41.364
80	16.939	20.485	25.212	37.030	76.030	27.182	26.394	25.606	24.424
85	0.000	0.788	3.152	7.485	13.788	9.848	9.455	8.273	9.061
90	0.000	0.000	0.000	0.000	0.000	0.000	0.394	0.000	0.000

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ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixt
0-20	232.77	N.A.	16.30
0-30	488.82	N.A.	34.20
0-40	771.24	N.A.	53.90
0-60	1221.44	N.A.	85.40
0-80	1417.15	N.A.	99.10
0-90	1429.86	N.A.	100.00
10-90	1369.5	N.A.	95.80
20-40	538.47	N.A.	37.70
20-50	790.61	N.A.	55.30
40-70	580.47	N.A.	40.60
60-80	195.71	N.A.	13.70
70-80	65.44	N.A.	4.60
80-90	12.71	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	1429.86	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	60.35
10-20	172.41
20-30	256.06
30-40	282.42
40-50	252.14
50-60	198.06
60-70	130.27
70-80	65.44
80-90	12.71
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

IES INDOOR REPORT**PHOTOMETRIC FILENAME : PXF-42-03-08-L4-8TW-S-DIM-UNV 4000K_.IES****COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD**

Effective Floor Cavity Reflectance 0.20

RC RW	80				70				50			30			10			0
	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10	0
0	68	68	68	68	66	66	66	66	63	63	63	61	61	61	58	58	58	57
1	63	60	58	56	61	59	57	55	57	55	54	55	53	52	53	51	50	49
2	58	53	50	47	56	52	49	46	50	48	45	49	46	44	47	45	43	42
3	53	48	43	40	52	47	43	40	45	42	39	43	41	38	42	40	38	36
4	49	43	38	34	48	42	38	34	40	37	34	39	36	33	38	35	33	32
5	45	38	34	30	44	38	33	30	37	33	30	35	32	29	34	31	29	28
6	42	35	30	27	41	34	30	26	33	29	26	32	29	26	31	28	26	25
7	39	32	27	24	38	31	27	24	30	26	23	30	26	23	29	26	23	22
8	36	29	25	21	36	29	24	21	28	24	21	27	24	21	27	23	21	20
9	34	27	22	19	33	27	22	19	26	22	19	25	22	19	25	21	19	18
10	32	25	21	18	31	25	20	18	24	20	18	23	20	17	23	20	17	16

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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	17.3	18.8	17.7	19.1	19.4	20.2	21.7	20.6	22.0	22.4
	3H	18.4	19.8	18.8	20.1	20.5	21.9	23.3	22.3	23.6	23.9
	4H	18.7	20.0	19.1	20.4	20.7	22.6	23.9	23.0	24.3	24.6
	6H	18.9	20.0	19.3	20.4	20.8	23.1	24.3	23.6	24.7	25.1
	8H	18.8	20.0	19.3	20.4	20.8	23.3	24.4	23.7	24.8	25.2
	12H	18.8	19.9	19.3	20.3	20.7	23.3	24.4	23.7	24.7	25.2

UGR Viewed Endwise

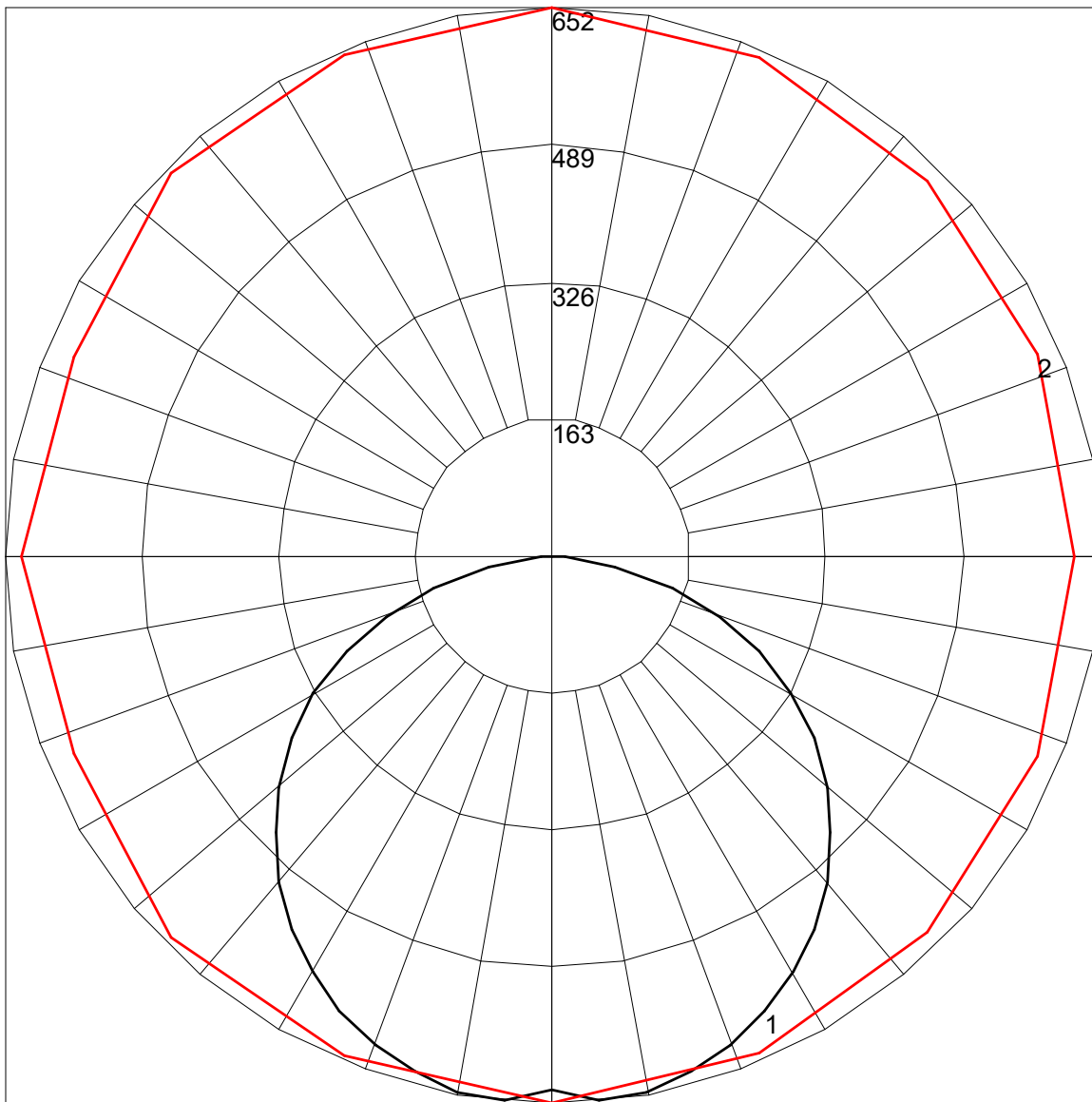
4H	2H	18.0	19.3	18.4	19.6	20.0	20.2	21.5	20.6	21.9	22.2
	3H	19.3	20.3	19.7	20.7	21.1	22.1	23.1	22.5	23.5	23.9
	4H	19.6	20.6	20.1	21.0	21.4	22.8	23.8	23.2	24.2	24.6
	6H	19.8	20.6	20.3	21.1	21.5	23.4	24.2	23.9	24.7	25.1
	8H	19.8	20.6	20.3	21.0	21.5	23.6	24.4	24.0	24.8	25.3
	12H	19.8	20.5	20.3	21.0	21.4	23.6	24.3	24.1	24.8	25.3

8H	4H	19.9	20.7	20.4	21.1	21.6	22.8	23.6	23.3	24.0	24.5
	6H	20.1	20.8	20.6	21.2	21.7	23.4	24.1	23.9	24.6	25.0
	8H	20.1	20.7	20.6	21.2	21.7	23.6	24.2	24.1	24.7	25.2
	12H	20.1	20.6	20.6	21.1	21.7	23.7	24.2	24.2	24.7	25.3

12H	4H	19.9	20.6	20.4	21.1	21.6	22.8	23.5	23.3	24.0	24.4
	6H	20.1	20.7	20.7	21.2	21.7	23.4	24.0	23.9	24.4	25.0
	8H	20.2	20.7	20.7	21.2	21.7	23.6	24.1	24.1	24.6	25.2

Maximum UGR = 25.3

POLAR GRAPH



Maximum Candela = 651.576 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.)