

IES INDOOR REPORT

PHOTOMETRIC FILENAME : PXF-46-03-08-L8-RGB835-G-XXXX-XXXX-DMX-UNV WHITE ONLY.IES

DESCRIPTION INFORMATION (From Photometric File)

IESNA:LM-63-2002

[TEST] GEN from BALLABS TEST NO. 20586.0

[TESTLAB] BUILDING ACOUSTICS & LIGHTING LABORATORIES, INC

[ISSUEDATE] 1 DEC 2023

[MANUFAC] WILLIAMS INDOOR

[OTHER] H.E. WILLIAMS, INC - CARTHAGE, MO 64836

[LUMINAIRE] PERIMETER LUMINAIRE

[MORE] SPECULAR REFLECTOR w/OPEN BTM

[LUMCAT] PXF-46-03-08-L8-RGB835-G-xxxx-xxxx-DMX-UNV

[_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	3146
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	88
Total Luminaire Watts	35.6
Ballast Factor	1.00
CIE Type	Direct
Spacing Criterion (0-180)	0.18
Spacing Criterion (90-270)	1.20
Spacing Criterion (Diagonal)	0.56
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	2705	2425	29053
55	2466	2760	25313
65	1908	2428	18799
75	1218	1671	8325
85	336	673	2018

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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	3965.706	3965.706	3965.706	3965.706	3965.706	3965.706	3965.706	3965.706	3965.706
5	2000.430	2089.989	2661.660	3317.868	3953.988	4498.038	4739.931	4667.949	4559.139
10	899.775	979.290	1441.314	2665.845	3857.733	4625.262	4229.361	3557.250	3201.525
15	444.447	543.213	811.890	1874.043	3744.738	4443.633	3214.917	2366.199	2033.910
20	267.003	272.025	507.222	1271.403	3570.642	3901.257	2214.702	1228.716	863.784
25	246.915	253.611	270.351	893.079	3400.731	3197.340	1311.579	607.662	539.865
30	229.338	232.686	247.752	582.552	3171.393	2463.291	677.133	476.253	452.817
35	215.946	216.783	226.827	404.271	2924.478	1859.814	498.015	406.782	320.571
40	220.131	214.272	207.576	241.893	2656.638	1244.619	409.293	255.285	225.153
45	218.457	218.457	195.858	212.598	2346.111	726.516	314.712	192.510	171.585
50	193.347	200.043	191.673	187.488	2013.822	438.588	200.043	147.312	134.757
55	161.541	168.237	180.792	161.541	1658.097	334.800	149.823	115.506	107.973
60	125.550	133.083	153.171	138.105	1283.121	262.818	111.321	90.396	86.211
65	92.070	97.092	117.180	125.550	907.308	146.475	82.026	67.797	63.612
70	61.101	67.797	78.678	102.951	561.627	87.885	56.916	50.220	44.361
75	35.991	38.502	49.383	66.123	246.078	52.731	35.991	30.132	25.947
80	16.740	20.088	21.762	31.806	69.471	25.110	17.577	13.392	10.881
85	3.348	6.696	6.696	8.370	20.088	6.696	3.348	3.348	0.000
90	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000

IES INDOOR REPORT**PHOTOMETRIC FILENAME : PXF-46-03-08-L8-RGB835-G-XXXX-XXXX-DMX-UNV WHITE ONLY.IES****ZONAL LUMEN SUMMARY**

Zone	Lumens	%Lamp	%Fixt
0-20	962.41	N.A.	30.60
0-30	1568.17	N.A.	49.80
0-40	2099.86	N.A.	66.70
0-60	2853.52	N.A.	90.70
0-80	3134.91	N.A.	99.60
0-90	3146.03	N.A.	100.00
10-90	2819.69	N.A.	89.60
20-40	1137.45	N.A.	36.20
20-50	1566.19	N.A.	49.80
40-70	956.97	N.A.	30.40
60-80	281.39	N.A.	8.90
70-80	78.08	N.A.	2.50
80-90	11.12	N.A.	0.40
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	3146.03	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	326.34
10-20	636.07
20-30	605.76
30-40	531.69
40-50	428.74
50-60	324.92
60-70	203.31
70-80	78.08
80-90	11.12
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	100	100	100	100	97	97	97	97	93	93	93	89	89	89	85	85	85	84
1	93	90	88	85	91	89	86	84	85	83	81	82	80	79	79	78	77	75
2	87	82	77	74	85	80	76	73	77	74	71	75	72	70	72	70	68	67
3	81	74	69	65	79	73	68	64	71	66	63	69	65	62	67	64	61	59
4	76	68	62	58	74	67	61	57	65	60	56	63	59	56	61	58	55	54
5	71	62	56	52	70	62	56	52	60	55	51	58	54	51	57	53	50	49
6	67	58	52	47	65	57	51	47	56	50	47	54	50	46	53	49	46	45
7	63	54	48	43	62	53	47	43	52	47	43	51	46	43	50	46	42	41
8	59	50	44	40	58	50	44	40	49	43	40	48	43	40	47	42	39	38
9	56	47	41	37	55	46	41	37	46	41	37	45	40	37	44	40	37	35
10	54	44	39	35	53	44	38	35	43	38	35	42	38	35	42	37	34	33

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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	11.9	13.3	12.3	13.6	13.9	19.7	21.0	20.0	21.3	21.6
	3H	13.1	14.3	13.5	14.7	15.0	22.5	23.7	22.9	24.1	24.4
	4H	13.4	14.6	13.8	14.9	15.3	23.1	24.2	23.5	24.6	25.0
	6H	13.6	14.6	14.0	15.0	15.4	23.3	24.3	23.7	24.7	25.1
	8H	13.6	14.6	14.0	15.0	15.4	23.3	24.3	23.7	24.7	25.1
	12H	13.6	14.5	14.0	14.9	15.3	23.3	24.2	23.7	24.6	25.0

UGR Viewed Endwise

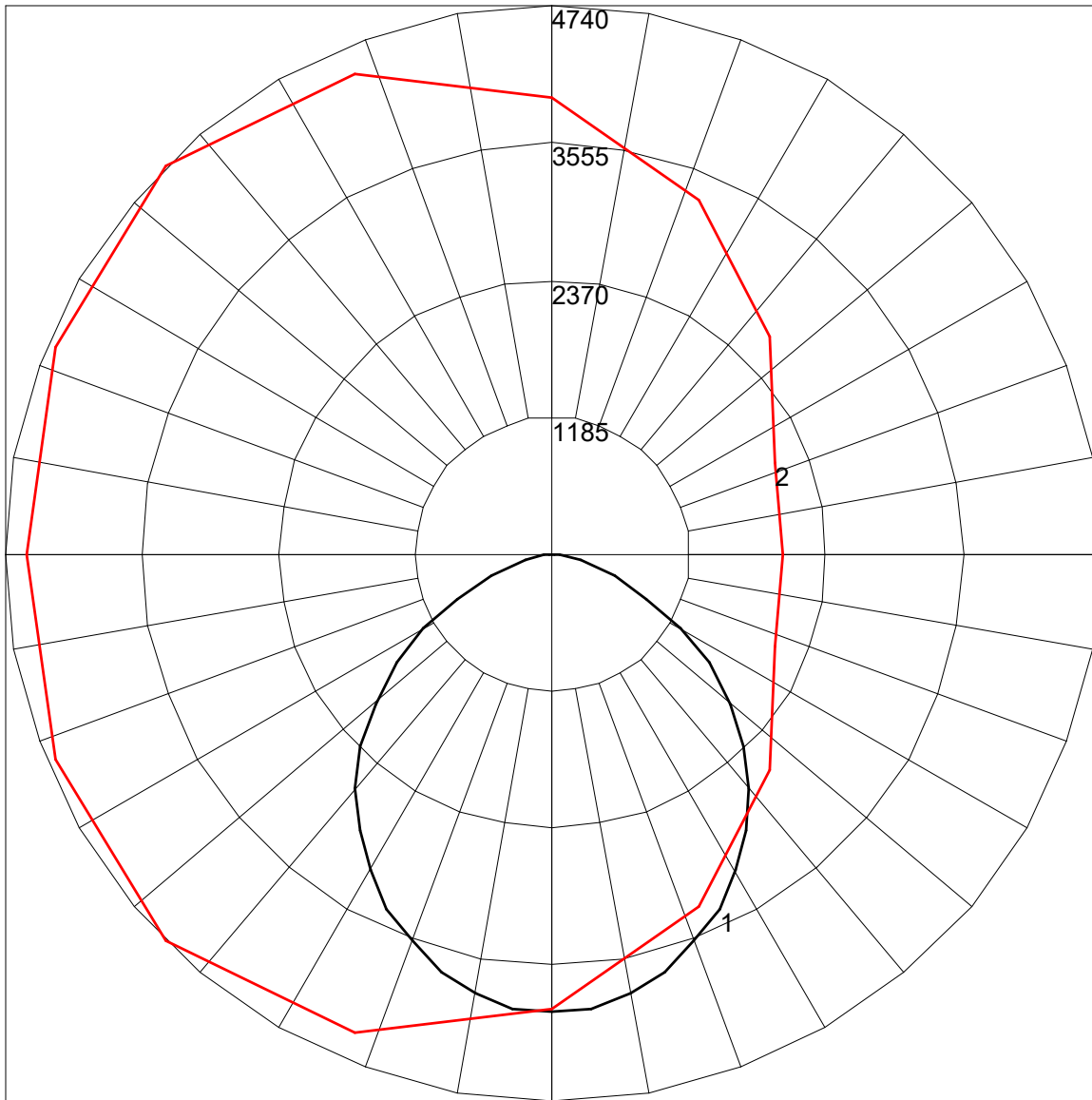
4H	2H	12.6	13.8	13.0	14.1	14.5	19.5	20.6	19.9	21.0	21.4
	3H	14.0	14.9	14.4	15.3	15.7	22.4	23.3	22.8	23.7	24.1
	4H	14.4	15.2	14.8	15.6	16.0	23.0	23.8	23.4	24.2	24.7
	6H	14.6	15.3	15.0	15.7	16.2	23.2	23.9	23.7	24.4	24.8
	8H	14.6	15.3	15.0	15.7	16.2	23.2	23.9	23.7	24.3	24.8
	12H	14.6	15.2	15.1	15.6	16.1	23.2	23.8	23.7	24.3	24.8
8H	4H	14.6	15.3	15.1	15.7	16.2	22.9	23.5	23.3	24.0	24.5
	6H	14.9	15.4	15.4	15.9	16.4	23.1	23.6	23.6	24.1	24.6
	8H	14.9	15.4	15.5	15.9	16.4	23.1	23.6	23.6	24.1	24.6
	12H	15.0	15.4	15.5	15.9	16.5	23.1	23.6	23.6	24.0	24.6
12H	4H	14.6	15.2	15.1	15.7	16.2	22.8	23.4	23.3	23.9	24.4
	6H	14.9	15.4	15.4	15.9	16.4	23.0	23.5	23.6	24.0	24.5
	8H	15.0	15.4	15.5	15.9	16.5	23.1	23.5	23.6	24.0	24.6

Maximum UGR = 25.1

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POLAR GRAPH



Maximum Candela = 4739.931 Located At Horizontal Angle = 135, Vertical Angle = 5

1 - Vertical Plane Through Horizontal Angles (90 - 270)

2 - Horizontal Cone Through Vertical Angle (5) (Through Max. Cd.)