IES INDOOR REPORT
PHOTOMETRIC FILENAME : PXF-46-07-04-L4-835-G-DIM-UNV_.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] 03-25-2021
[MANUFAC] WILLIAMS INDOOR
[OTHER] H.E. WILLIAMS, INC - CARTHAGE, MO 64836
[LUMINAIRE] PERIMETER LUMINAIRE
[MORE] SPECULAR REFLECTOR w/OPEN BTM
[LUMCAT] PXF-46-07-04-L4-835-G-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	2515
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	86
Total Luminaire Watts	29.3
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)	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	1088	975	11682
55	992	1110	10178
65	767	976	7559
75	490	672	3347
85	135	270	811

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CANDELA TABULATION

	0.0	22.5	45.0	67.5	90.0	112.5	135.0	157.5	180.0
0	3170.010	3170.010	3170.010	3170.010	3170.010	3170.010	3170.010	3170.010	3170.010
5	1599.056	1670.645	2127.614	2652.157	3160.644	3595.533	3788.892	3731.353	3644.375
10	719.240	782.801	1152.123	2130.959	3083.702	3697.230	3380.765	2843.509	2559.158
15	355.271	434.221	648.989	1498.027	2993.378	3552.044	2569.863	1891.435	1625.818
20	213.430	217.445	405.451	1016.303	2854.214	3118.493	1770.335	982.181	690.471
25	197.373	202.725	216.107	713.888	2718.394	2555.813	1048.418	485.738	431.544
30	183.323	185.999	198.042	465.666	2535.072	1969.046	541.270	380.696	361.962
35	172.618	173.287	181.316	323.156	2337.699	1486.653	398.091	325.164	256.250
40	175.963	171.280	165.927	193.359	2123.599	994.894	327.171	204.064	179.977
45	174.625	174.625	156.560	169.941	1875.378	580.745	251.567	153.884	137.157
50	154.553	159.906	153.215	149.870	1609.760	350.588	159.906	117.755	107.719
55	129.129	134.481	144.517	129.129	1325.410	267.624	119.762	92.330	86.309
60	100.359	106.381	122.438	110.395	1025.670	210.085	88.985	72.259	68.913
65	73.597	77.611	93.669	100.359	725.262	117.086	65.568	54.194	50.849
70	48.841	54.194	62.892	82.294	448.940	70.251	45.496	40.144	35.460
75	28.770	30.777	39.475	52.856	196.704	42.151	28.770	24.086	20.741
80	13.381	16.057	17.396	25.424	55.532	20.072	14.050	10.705	8.698
85	2.676	5.352	5.352	6.691	16.057	5.352	2.676	2.676	0.000
90	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000

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ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixt
0-20	769.30	N.A.	30.60
0-30	1253.52	N.A.	49.80
0-40	1678.53	N.A.	66.70
0-60	2280.98	N.A.	90.70
0-80	2505.91	N.A.	99.60
0-90	2514.8	N.A.	100.00
10-90	2253.94	N.A.	89.60
20-40	909.23	N.A.	36.20
20-50	1251.94	N.A.	49.80
40-70	764.96	N.A.	30.40
60-80	224.93	N.A.	8.90
70-80	62.41	N.A.	2.50
80-90	8.89	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	2514.8	N.A.	100.00

Total Luminaire Efficiency = N.A.%

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	260.86
10-20	508.45
20-30	484.22
30-40	425.01
40-50	342.72
50-60	259.73
60-70	162.52
70-80	62.41
80-90	8.89
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	112	108	105	102	109	106	103	100	102	99	97	98	96	94	94	93	91	90
2	104	98	92	88	102	96	91	87	92	88	85	89	86	83	86	84	81	80
3	97	89	82	77	95	87	81	77	84	79	75	82	78	74	80	76	73	71
4	91	81	74	69	89	80	73	68	78	72	67	75	71	67	73	69	66	64
5	85	75	67	62	83	74	67	62	72	66	61	70	65	60	68	64	60	58
6	80	69	62	56	78	68	61	56	66	60	56	65	59	55	63	59	55	53
7	75	64	57	52	74	63	56	52	62	56	51	61	55	51	59	54	51	49
8	71	60	53	48	70	59	52	48	58	52	47	57	51	47	56	51	47	45
9	67	56	49	44	66	56	49	44	54	48	44	54	48	44	53	48	44	42
10	64	53	46	42	63	52	46	42	51	45	41	51	45	41	50	45	41	40

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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					UGR Viewed Endwise				
X=2H	Y=2H	8.2	9.5	8.5	9.8	10.1	15.9	17.2	16.2	17.5	17.9
	3H	9.3	10.5	9.7	10.9	11.2	18.7	19.9	19.1	20.3	20.6
	4H	9.7	10.8	10.1	11.1	11.5	19.3	20.5	19.7	20.8	21.2
	6H	9.8	10.8	10.2	11.2	11.6	19.5	20.5	19.9	20.9	21.3
	8H	9.8	10.8	10.2	11.2	11.6	19.5	20.5	19.9	20.9	21.3
	12H	9.8	10.7	10.2	11.1	11.5	19.5	20.4	19.9	20.8	21.3
4H	2H	8.9	10.0	9.3	10.3	10.7	15.7	16.9	16.1	17.2	17.6
	3H	10.2	11.1	10.6	11.5	11.9	18.6	19.5	19.0	19.9	20.3
	4H	10.6	11.4	11.0	11.8	12.2	19.2	20.0	19.6	20.4	20.9
	6H	10.8	11.5	11.2	11.9	12.4	19.4	20.1	19.9	20.6	21.1
	8H	10.8	11.5	11.3	11.9	12.4	19.4	20.1	19.9	20.5	21.0
	12H	10.8	11.4	11.3	11.9	12.3	19.4	20.0	19.9	20.5	21.0
8H	4H	10.8	11.5	11.3	11.9	12.4	19.1	19.8	19.6	20.2	20.7
	6H	11.1	11.6	11.6	12.1	12.6	19.3	19.9	19.8	20.4	20.8
	8H	11.2	11.6	11.7	12.2	12.6	19.3	19.8	19.8	20.3	20.8
	12H	11.2	11.6	11.7	12.1	12.7	19.3	19.8	19.9	20.3	20.8
12H	4H	10.8	11.4	11.3	11.9	12.4	19.1	19.6	19.5	20.1	20.6
	6H	11.1	11.6	11.7	12.1	12.6	19.3	19.8	19.8	20.2	20.8
	8H	11.2	11.6	11.7	12.1	12.7	19.3	19.7	19.8	20.2	20.8

Maximum UGR = 21.3

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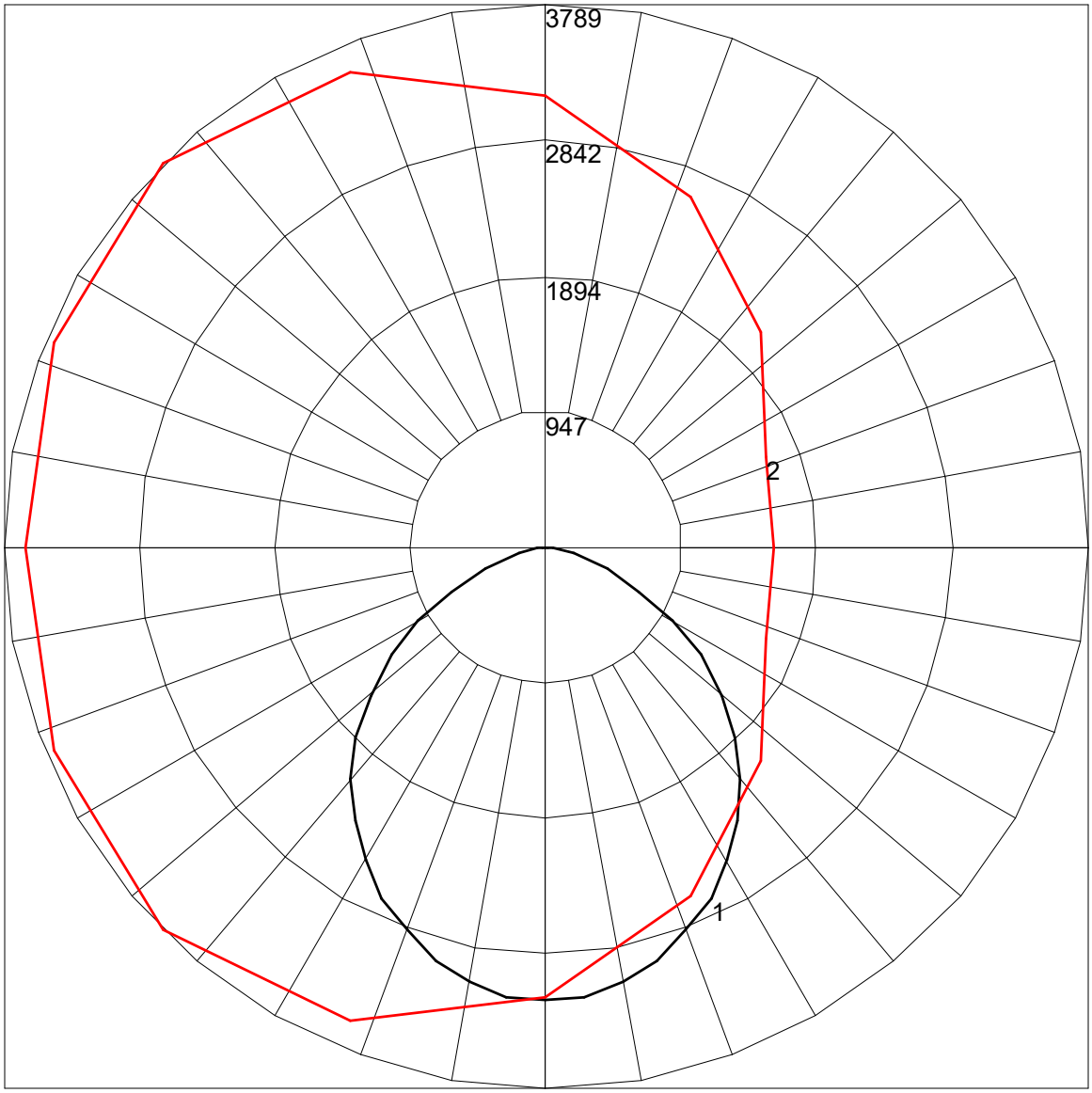
POLAR GRAPH



Maximum Candela = 3788.892 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.)

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