



IES INDOOR REPORT

PHOTOMETRIC FILENAME : PXF-46-03-08-L4-8TW-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] 8-JUL-2020
 [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-L4-8TW-G-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	1258
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	95
Total Luminaire Watts	13.2
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	1082	970	11616
55	986	1104	10121
65	763	971	7517
75	487	668	3329
85	135	269	807

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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	1585.635	1585.635	1585.635	1585.635	1585.635	1585.635	1585.635	1585.635	1585.635
5	799.846	835.654	1064.230	1326.606	1580.950	1798.481	1895.199	1866.418	1822.911
10	359.763	391.556	576.290	1065.903	1542.464	1849.350	1691.054	1422.319	1280.087
15	177.706	217.197	324.623	749.311	1497.284	1776.728	1285.442	946.093	813.232
20	106.758	108.766	202.806	508.354	1427.674	1559.866	885.519	491.286	345.373
25	98.726	101.403	108.096	357.086	1359.737	1278.414	524.418	242.966	215.858
30	91.698	93.036	99.060	232.926	1268.040	984.914	270.743	190.423	181.053
35	86.343	86.678	90.694	161.642	1169.314	743.622	199.125	162.646	128.176
40	88.016	85.674	82.997	96.718	1062.222	497.644	163.650	102.072	90.024
45	87.347	87.347	78.311	85.005	938.061	290.488	125.833	76.973	68.606
50	77.307	79.985	76.638	74.965	805.200	175.364	79.985	58.901	53.881
55	64.590	67.267	72.287	64.590	662.968	133.865	59.905	46.184	43.172
60	50.200	53.211	61.243	55.219	513.039	105.084	44.510	36.144	34.470
65	36.813	38.821	46.853	50.200	362.775	58.566	32.797	27.108	25.434
70	24.430	27.108	31.458	41.164	224.559	35.140	22.757	20.080	17.737
75	14.391	15.395	19.745	26.438	98.391	21.084	14.391	12.048	10.375
80	6.693	8.032	8.701	12.717	27.777	10.040	7.028	5.355	4.351
85	1.339	2.677	2.677	3.347	8.032	2.677	1.339	1.339	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	384.81	N.A.	30.60
0-30	627.01	N.A.	49.80
0-40	839.60	N.A.	66.70
0-60	1140.94	N.A.	90.70
0-80	1253.45	N.A.	99.60
0-90	1257.9	N.A.	100.00
10-90	1127.42	N.A.	89.60
20-40	454.80	N.A.	36.20
20-50	626.22	N.A.	49.80
40-70	382.63	N.A.	30.40
60-80	112.51	N.A.	8.90
70-80	31.22	N.A.	2.50
80-90	4.44	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	1257.9	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	130.48
10-20	254.32
20-30	242.21
30-40	212.59
40-50	171.43
50-60	129.92
60-70	81.29
70-80	31.22
80-90	4.44
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 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	48	48	48	48	47	47	47	47	44	44	44	43	43	43	41	41	41	40
1	45	43	42	41	44	42	41	40	41	40	39	39	38	38	38	37	37	36
2	42	39	37	35	41	38	36	35	37	35	34	36	34	33	35	34	33	32
3	39	35	33	31	38	35	33	31	34	32	30	33	31	30	32	30	29	28
4	36	32	30	28	35	32	29	27	31	29	27	30	28	27	29	28	26	26
5	34	30	27	25	33	29	27	25	29	26	24	28	26	24	27	25	24	23
6	32	28	25	23	31	27	24	22	27	24	22	26	24	22	25	23	22	21
7	30	26	23	21	29	25	23	21	25	22	21	24	22	20	24	22	20	20
8	28	24	21	19	28	24	21	19	23	21	19	23	21	19	22	20	19	18
9	27	22	20	18	26	22	20	18	22	19	18	21	19	18	21	19	18	17
10	26	21	18	17	25	21	18	17	21	18	17	20	18	16	20	18	16	16

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UGR TABLE - CORRECTED

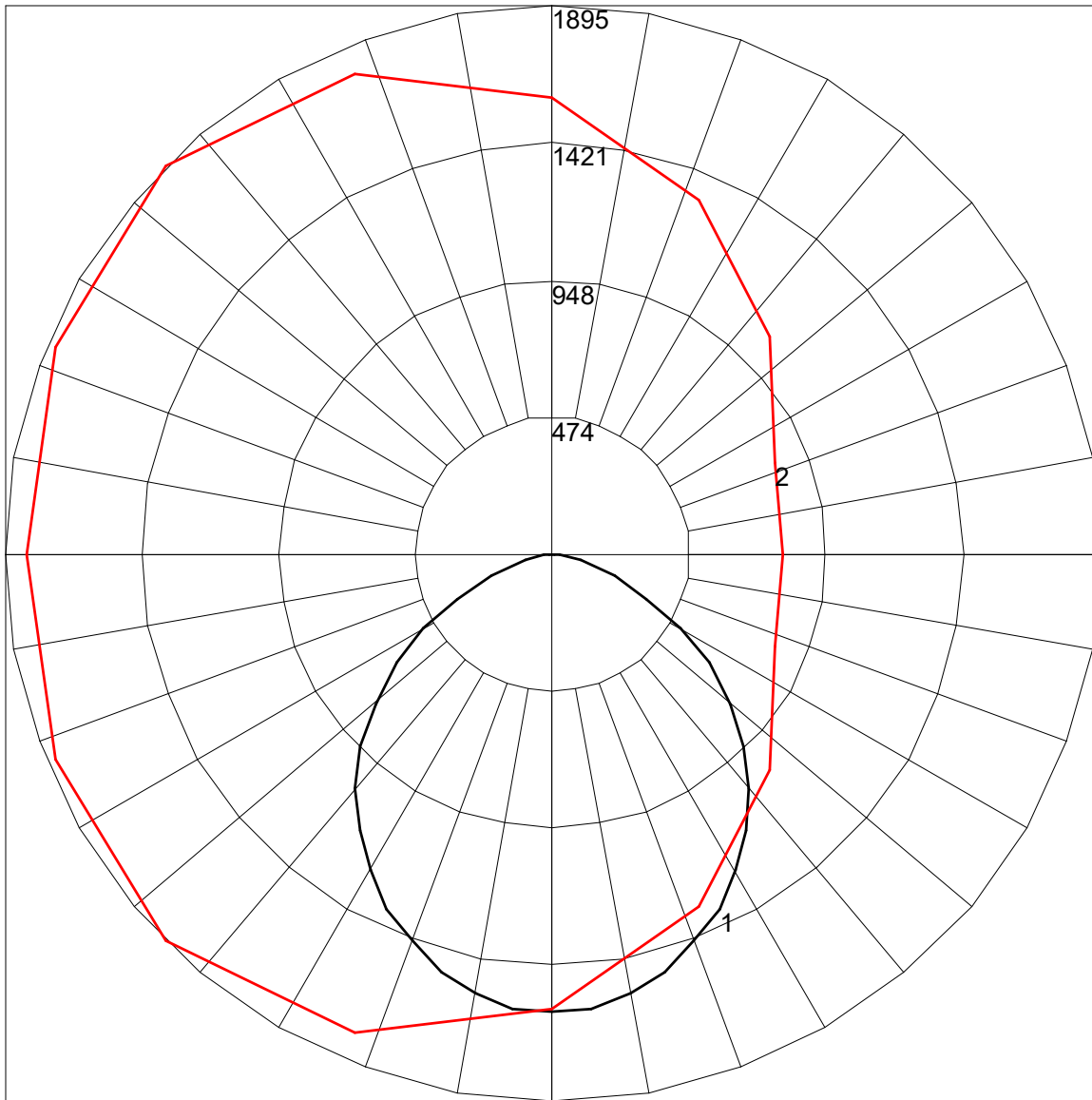
Reflectances

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					UGR Viewed Endwise				
X=2H	Y=2H	11.2	12.6	11.6	12.9	13.2	19.0	20.3	19.3	20.6	20.9
	3H	12.4	13.6	12.8	14.0	14.3	21.8	23.0	22.2	23.4	23.7
	4H	12.7	13.9	13.1	14.2	14.6	22.4	23.5	22.8	23.9	24.3
	6H	12.9	13.9	13.3	14.3	14.7	22.6	23.6	23.0	24.0	24.4
	8H	12.9	13.9	13.3	14.3	14.7	22.6	23.6	23.0	24.0	24.4
	12H	12.9	13.8	13.3	14.2	14.6	22.6	23.5	23.0	23.9	24.3
4H	2H	11.9	13.1	12.3	13.4	13.8	18.8	19.9	19.2	20.3	20.7
	3H	13.3	14.2	13.7	14.6	15.0	21.7	22.6	22.1	23.0	23.4
	4H	13.7	14.5	14.1	14.9	15.3	22.3	23.1	22.7	23.5	24.0
	6H	13.9	14.6	14.3	15.0	15.5	22.5	23.2	23.0	23.7	24.1
	8H	13.9	14.6	14.4	15.0	15.5	22.5	23.2	23.0	23.6	24.1
	12H	13.9	14.5	14.4	14.9	15.4	22.5	23.1	23.0	23.6	24.1
8H	4H	13.9	14.6	14.4	15.0	15.5	22.2	22.8	22.6	23.3	23.8
	6H	14.2	14.7	14.7	15.2	15.7	22.4	22.9	22.9	23.4	23.9
	8H	14.2	14.7	14.8	15.2	15.7	22.4	22.9	22.9	23.4	23.9
	12H	14.3	14.7	14.8	15.2	15.8	22.4	22.9	22.9	23.3	23.9
12H	4H	13.9	14.5	14.4	15.0	15.5	22.1	22.7	22.6	23.2	23.7
	6H	14.2	14.7	14.7	15.2	15.7	22.4	22.8	22.9	23.3	23.8
	8H	14.3	14.7	14.8	15.2	15.8	22.4	22.8	22.9	23.3	23.9

Maximum UGR = 24.4

POLAR GRAPH



Maximum Candela = 1895.199 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.)