IES INDOOR REPORT
PHOTOMETRIC FILENAME : PXF-46-07-04-L10-835-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] 7-28-2021
[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-L10-835-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	5975
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	113
Total Luminaire Watts	53
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	2584	2317	27752
55	2356	2636	24180
65	1822	2319	17957
75	1163	1596	7953
85	321	643	1928

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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	7531.136	7531.136	7531.136	7531.136	7531.136	7531.136	7531.136	7531.136	7531.136
5	3798.948	3969.026	5054.667	6300.849	7508.883	8542.069	9001.440	8864.742	8658.104
10	1708.732	1859.736	2737.150	5062.615	7326.088	8783.676	8031.834	6755.451	6079.906
15	844.034	1031.597	1541.832	3558.931	7111.503	8438.751	6105.338	4493.567	3862.529
20	507.056	516.593	963.248	2414.478	6780.884	7408.743	4205.864	2333.412	1640.383
25	468.908	481.624	513.414	1696.016	6458.211	6071.959	2490.775	1153.990	1025.239
30	435.528	441.886	470.497	1106.304	6022.684	4677.951	1285.920	904.436	859.929
35	410.096	411.685	430.759	767.737	5553.776	3531.909	945.763	772.506	608.785
40	418.043	406.917	394.200	459.371	5045.130	2363.613	777.274	484.803	427.580
45	414.864	414.864	371.947	403.738	4455.419	1379.702	597.659	365.589	325.851
50	367.179	379.895	364.000	356.052	3824.380	832.907	379.895	279.755	255.912
55	306.777	319.493	343.336	306.777	3148.835	635.807	284.524	219.353	205.048
60	238.428	252.733	290.882	262.270	2436.731	499.109	211.406	171.668	163.720
65	174.847	184.384	222.533	238.428	1723.037	278.166	155.773	128.751	120.803
70	116.035	128.751	149.415	195.511	1066.567	166.899	108.087	95.371	84.244
75	68.349	73.118	93.782	125.572	467.318	100.140	68.349	57.223	49.275
80	31.790	38.148	41.327	60.402	131.930	47.686	33.380	25.432	20.664
85	6.358	12.716	12.716	15.895	38.148	12.716	6.358	6.358	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	1827.67	N.A.	30.60
0-30	2978.05	N.A.	49.80
0-40	3987.77	N.A.	66.70
0-60	5419.02	N.A.	90.70
0-80	5953.4	N.A.	99.60
0-90	5974.51	N.A.	100.00
10-90	5354.78	N.A.	89.60
20-40	2160.1	N.A.	36.20
20-50	2974.3	N.A.	49.80
40-70	1817.36	N.A.	30.40
60-80	534.38	N.A.	8.90
70-80	148.28	N.A.	2.50
80-90	21.11	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	5974.51	N.A.	100.00

Total Luminaire Efficiency = N.A.%

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	619.74
10-20	1207.94
20-30	1150.38
30-40	1009.72
40-50	814.20
50-60	617.05
60-70	386.11
70-80	148.28
80-90	21.11
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	283	283	283	283	276	276	276	276	264	264	264	253	253	253	242	242	242	238
1	265	257	249	242	259	251	244	238	241	236	231	232	228	224	224	221	217	213
2	247	232	220	209	241	228	216	207	220	210	202	212	204	198	205	199	193	189
3	230	211	196	184	225	207	193	182	201	189	179	195	184	176	189	180	173	169
4	215	193	176	163	211	190	174	162	184	171	160	179	168	158	174	165	156	152
5	202	177	160	147	197	175	159	146	170	156	145	166	153	144	162	151	142	138
6	190	164	146	134	186	162	145	133	158	143	132	154	141	131	151	139	130	126
7	179	152	135	123	175	150	134	123	147	132	122	144	131	121	141	129	120	116
8	169	142	125	114	166	141	125	113	138	123	113	135	122	112	133	121	112	108
9	160	133	117	106	157	132	116	105	129	115	105	127	114	105	125	113	104	101
10	152	125	109	99	149	124	109	99	122	108	98	120	107	98	118	106	98	94

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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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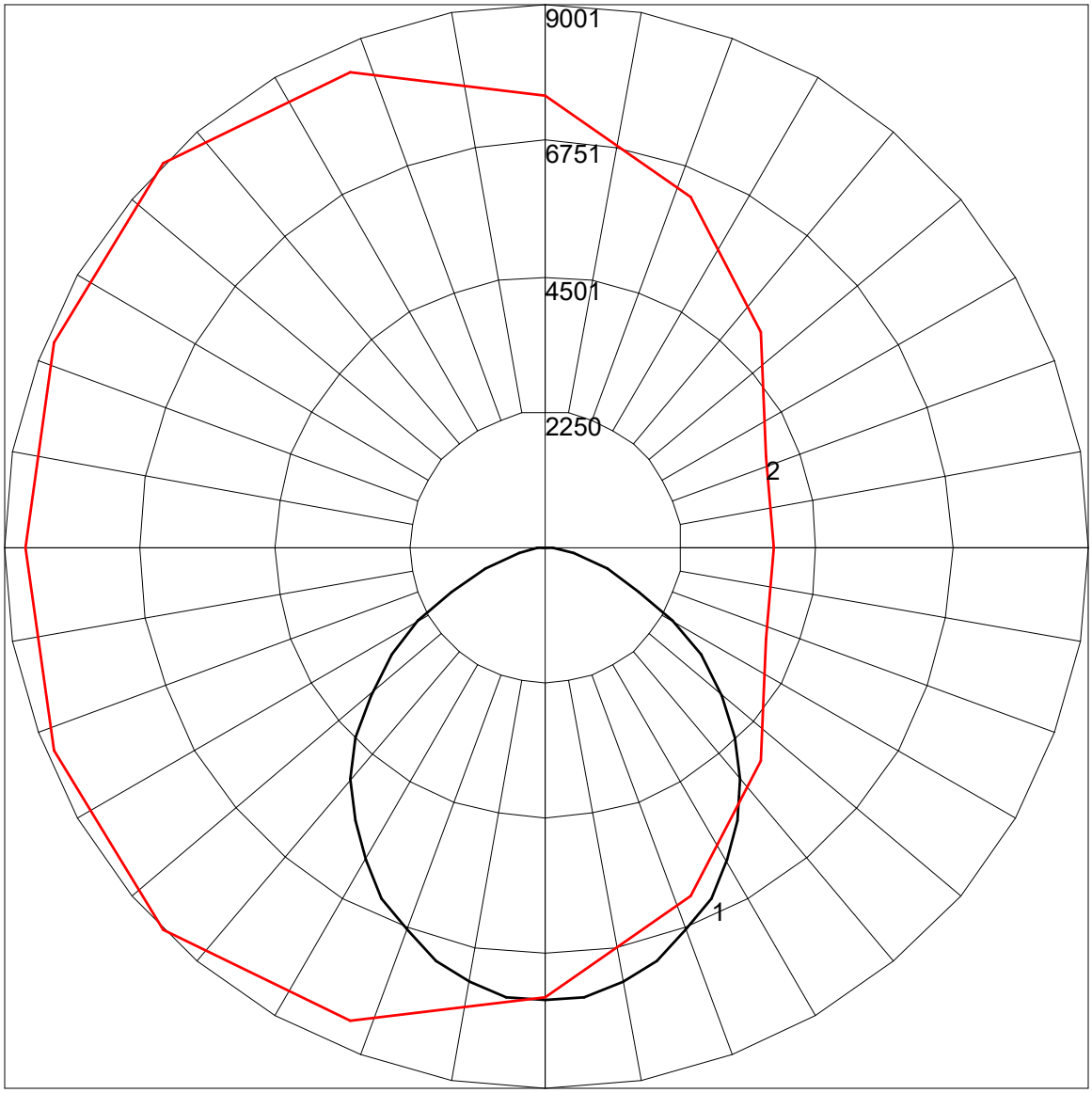
POLAR GRAPH



Maximum Candela = 9001.44 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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