



IES INDOOR REPORT

PHOTOMETRIC FILENAME : PXF-62-03-08-L10-8TW-S-DIM-UNV 4000K_.IES

DESCRIPTION INFORMATION (From Photometric File)

IESNA:LM-63-2002
 [TEST] GEN from BALLABS TEST NO. 20590.0
 [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-62-03-08-L10-8TW-S-xxxx-xxxx-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	3619
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	104
Total Luminaire Watts	34.8
Ballast Factor	1.00
CIE Type	Direct
Spacing Criterion (0-180)	1.24
Spacing Criterion (90-270)	1.34
Spacing Criterion (Diagonal)	1.20
Basic Luminous Shape	Rectangular
Luminous Length (0-180)	0.50 ft
Luminous Width (90-270)	3.68 ft
Luminous Height	0.00 ft

LUMINANCE DATA (cd/sq.m)

Angle In Degrees	Average 0-Deg	Average 45-Deg	Average 90-Deg
45	8909	8933	9754
55	8658	8738	9710
65	6161	7684	9262
75	3464	4641	7817
85	0	264	1649

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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	1598.727	1598.727	1598.727	1598.727	1598.727	1598.727	1598.727	1598.727	1598.727
5	1558.440	1562.370	1579.075	1607.571	1646.876	1625.258	1612.484	1540.753	1582.023
10	1524.048	1530.926	1551.561	1589.884	1637.050	1613.467	1583.988	1507.343	1538.787
15	1482.778	1484.743	1509.309	1553.527	1603.640	1580.057	1540.753	1449.369	1465.091
20	1433.647	1438.560	1456.247	1502.430	1566.301	1526.013	1471.969	1353.072	1313.767
25	1380.585	1380.585	1398.272	1439.542	1509.309	1460.177	1358.967	1154.582	1049.441
30	1320.645	1319.662	1330.471	1372.724	1446.421	1380.585	1208.626	874.534	680.958
35	1256.775	1250.879	1248.914	1292.149	1371.741	1280.358	950.196	501.138	322.300
40	1173.252	1169.321	1169.321	1190.939	1282.323	1148.686	623.965	254.499	197.507
45	1076.955	1073.024	1079.902	1096.607	1179.147	1005.223	312.474	169.994	154.272
50	984.588	977.710	977.710	982.623	1077.937	787.081	177.855	134.619	121.845
55	848.986	879.447	856.847	878.465	952.161	533.564	131.671	107.106	113.002
60	623.965	655.409	742.863	730.089	826.386	264.326	97.280	100.228	109.071
65	445.128	460.850	555.182	569.921	669.166	113.002	87.453	96.297	104.158
70	286.926	304.613	356.692	463.798	523.738	73.697	81.558	91.384	96.297
75	153.289	167.046	205.368	308.544	345.883	54.044	70.749	76.645	76.645
80	56.009	60.923	80.575	132.654	172.942	41.270	49.131	49.131	48.149
85	0.000	0.983	3.930	19.652	24.566	18.670	20.635	20.635	18.670
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	580.74	N.A.	16.00
0-30	1206.92	N.A.	33.30
0-40	1887.69	N.A.	52.20
0-60	3054.85	N.A.	84.40
0-80	3589.59	N.A.	99.20
0-90	3619.36	N.A.	100.00
10-90	3468.11	N.A.	95.80
20-40	1306.95	N.A.	36.10
20-50	1940.45	N.A.	53.60
40-70	1523.53	N.A.	42.10
60-80	534.74	N.A.	14.80
70-80	178.37	N.A.	4.90
80-90	29.77	N.A.	0.80
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	3619.36	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	151.25
10-20	429.50
20-30	626.18
30-40	680.77
40-50	633.50
50-60	533.66
60-70	356.37
70-80	178.37
80-90	29.77
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	298	298	298	298	291	291	291	291	278	278	278	266	266	266	255	255	255	250
1	275	264	254	246	268	258	250	242	248	241	234	238	232	227	229	225	220	215
2	252	233	217	204	245	228	214	202	219	207	197	211	201	193	204	196	188	183
3	231	207	188	173	225	203	185	171	195	180	168	189	176	165	182	172	162	157
4	213	185	164	148	207	181	162	147	175	159	145	170	155	143	164	152	141	136
5	196	166	145	129	191	163	143	129	158	141	127	153	138	126	149	135	125	119
6	182	150	129	114	178	148	128	114	144	126	113	140	124	112	136	122	111	106
7	169	137	116	102	165	135	115	101	131	114	101	128	112	100	125	110	99	94
8	158	126	105	91	154	124	105	91	121	103	91	118	102	90	115	100	90	85
9	148	116	96	83	145	114	96	83	112	94	82	109	93	82	107	92	81	77
10	139	107	88	76	136	106	88	75	104	87	75	101	86	75	99	85	74	70

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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

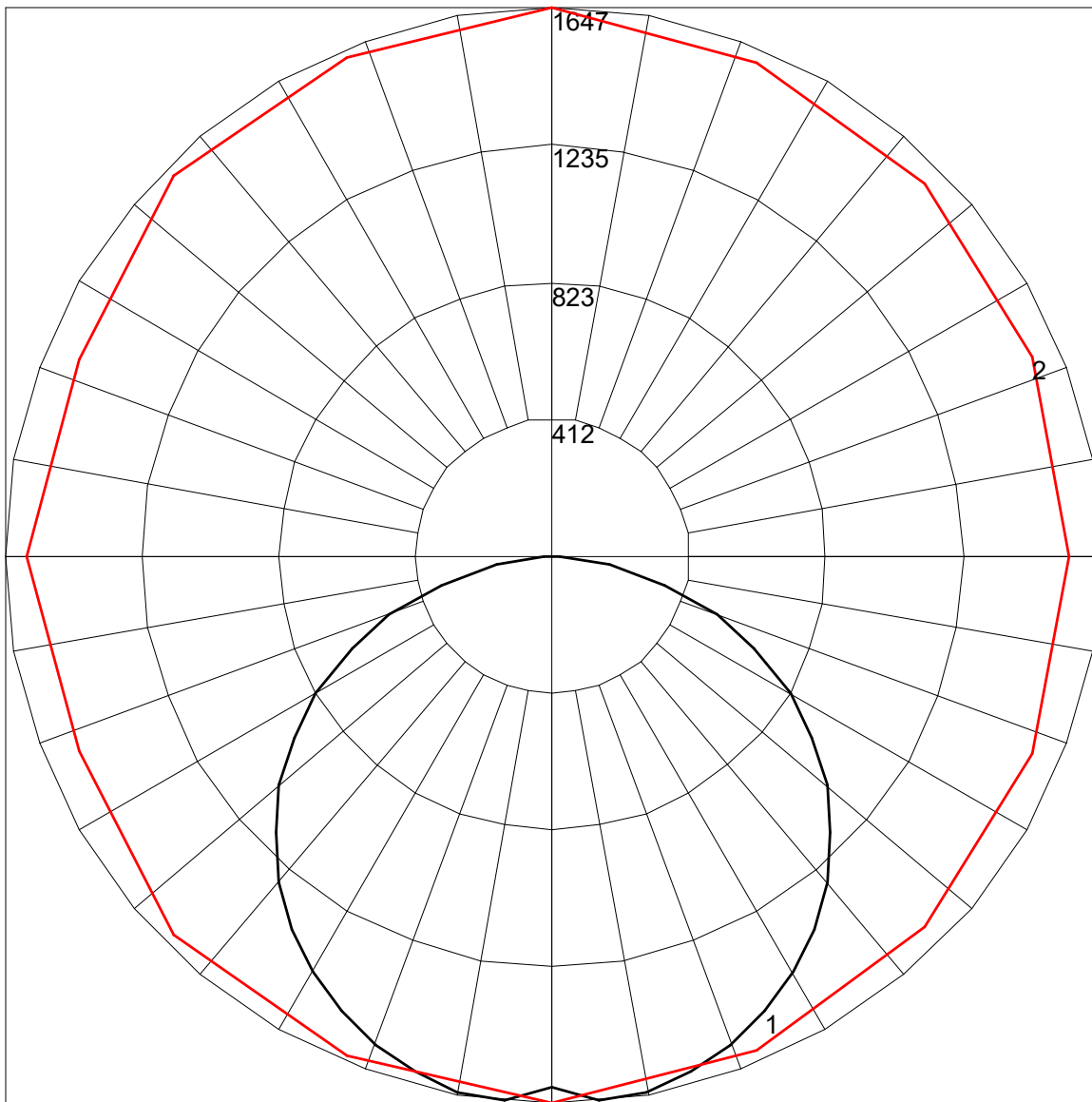
X=2H	Y=2H	17.3	18.8	17.6	19.1	19.4	16.4	18.0	16.8	18.3	18.6
	3H	18.3	19.7	18.7	20.0	20.4	18.4	19.8	18.8	20.1	20.5
	4H	18.5	19.8	18.9	20.2	20.6	19.2	20.5	19.6	20.8	21.2
	6H	18.6	19.8	19.0	20.2	20.6	19.6	20.8	20.1	21.2	21.6
	8H	18.6	19.7	19.0	20.1	20.5	19.7	20.9	20.2	21.3	21.7
	12H	18.6	19.7	19.0	20.0	20.5	19.8	20.8	20.2	21.2	21.7

UGR Viewed Endwise

4H	2H	17.9	19.2	18.3	19.5	19.9	16.8	18.1	17.2	18.4	18.8
	3H	19.1	20.1	19.5	20.5	20.9	18.9	19.9	19.3	20.3	20.7
	4H	19.3	20.3	19.8	20.7	21.2	19.7	20.7	20.1	21.1	21.5
	6H	19.5	20.3	19.9	20.8	21.2	20.3	21.1	20.7	21.5	22.0
	8H	19.5	20.2	19.9	20.7	21.2	20.4	21.2	20.8	21.6	22.1
	12H	19.4	20.1	19.9	20.6	21.1	20.4	21.1	20.9	21.6	22.1
8H	4H	19.6	20.4	20.0	20.8	21.3	19.8	20.5	20.2	21.0	21.5
	6H	19.7	20.4	20.2	20.8	21.3	20.3	21.0	20.8	21.5	22.0
	8H	19.7	20.3	20.2	20.8	21.3	20.5	21.1	21.0	21.6	22.1
	12H	19.7	20.2	20.2	20.7	21.2	20.5	21.0	21.0	21.5	22.1
12H	4H	19.6	20.3	20.1	20.8	21.2	19.7	20.4	20.2	20.9	21.4
	6H	19.7	20.3	20.2	20.8	21.3	20.3	20.9	20.8	21.4	21.9
	8H	19.7	20.2	20.2	20.7	21.3	20.5	21.0	21.0	21.5	22.0

Maximum UGR = 22.1

POLAR GRAPH



Maximum Candela = 1646.876 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.)