



IES INDOOR REPORT

PHOTOMETRIC FILENAME : PXF-42-03-08-P11-835-S-POE_.IES

DESCRIPTION INFORMATION (From Photometric File)

IESNA:LM-63-2002
 [TEST] GEN from BALLABS TEST NO. 20584.0
 [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-42-03-08-P11-835-S-PoE
 [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	3883
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	102
Total Luminaire Watts	38.1
Ballast Factor	1.00
CIE Type	Direct
Spacing Criterion (0-180)	1.22
Spacing Criterion (90-270)	1.34
Spacing Criterion (Diagonal)	1.24
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	10359	13260	15724
55	8345	10370	15726
65	6494	7979	15226
75	3945	5175	13608
85	0	860	3761

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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	1729.700	1729.700	1729.700	1729.700	1729.700	1729.700	1729.700	1729.700	1729.700
5	1683.703	1697.609	1715.794	1741.467	1769.279	1752.164	1747.885	1673.006	1719.003
10	1648.403	1661.239	1684.773	1723.282	1759.652	1739.327	1726.491	1650.543	1692.261
15	1598.127	1614.173	1643.055	1680.494	1728.630	1705.097	1686.912	1605.615	1636.636
20	1544.643	1560.688	1585.291	1631.288	1683.703	1656.961	1624.870	1524.318	1530.736
25	1485.809	1501.855	1522.179	1570.315	1628.079	1595.988	1536.085	1370.282	1338.191
30	1420.558	1429.115	1443.021	1492.227	1555.339	1517.900	1402.373	1101.788	987.330
35	1224.803	1308.239	1362.794	1399.164	1474.042	1424.836	1161.691	754.136	632.191
40	1013.003	1072.906	1267.591	1306.100	1380.979	1303.961	858.967	437.506	648.236
45	836.503	893.197	1070.767	1199.130	1269.730	1160.621	546.615	285.609	271.703
50	679.258	722.045	858.967	1070.767	1160.621	973.424	501.688	236.403	233.194
55	546.615	573.358	679.258	944.542	1030.118	724.185	226.776	201.103	207.521
60	420.391	451.412	522.012	764.833	893.197	441.785	183.988	189.336	201.103
65	313.421	331.606	385.091	543.406	734.882	248.170	159.385	177.570	187.197
70	203.242	216.079	267.424	353.000	575.497	134.782	143.339	151.897	154.036
75	116.597	125.155	152.967	213.939	402.206	97.342	113.388	114.458	112.318
80	45.997	55.624	68.461	100.552	206.452	73.809	71.670	69.530	66.321
85	0.000	2.139	8.558	20.324	37.439	26.742	25.673	22.464	24.603
90	0.000	0.000	0.000	0.000	0.000	0.000	1.070	0.000	0.000

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ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixt
0-20	632.06	N.A.	16.30
0-30	1327.35	N.A.	34.20
0-40	2094.21	N.A.	53.90
0-60	3316.67	N.A.	85.40
0-80	3848.11	N.A.	99.10
0-90	3882.61	N.A.	100.00
10-90	3718.73	N.A.	95.80
20-40	1462.16	N.A.	37.70
20-50	2146.82	N.A.	55.30
40-70	1576.19	N.A.	40.60
60-80	531.43	N.A.	13.70
70-80	177.71	N.A.	4.60
80-90	34.50	N.A.	0.90
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	3882.61	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	163.88
10-20	468.17
20-30	695.29
30-40	766.87
40-50	684.66
50-60	537.80
60-70	353.73
70-80	177.71
80-90	34.50
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	222	222	222	222	217	217	217	217	207	207	207	198	198	198	190	190	190	186
1	205	197	190	184	200	193	187	181	185	180	175	178	174	170	171	168	165	161
2	188	174	163	153	184	171	160	152	165	156	148	159	151	145	153	147	142	138
3	173	155	141	130	169	152	139	129	147	136	127	142	132	125	137	129	123	119
4	160	139	124	112	155	136	122	111	132	120	110	128	117	108	124	115	107	103
5	148	125	110	98	144	123	108	98	119	106	96	116	104	95	112	102	95	91
6	137	114	98	87	133	112	97	86	109	95	86	105	94	85	103	92	84	81
7	127	104	88	77	124	102	87	77	99	86	77	97	85	76	94	84	75	72
8	119	95	80	70	116	94	79	69	91	78	69	89	77	69	87	76	68	65
9	111	88	73	63	109	87	73	63	84	72	63	82	71	62	81	70	62	59
10	105	81	67	58	102	80	67	58	78	66	57	77	65	57	75	64	57	54

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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	16.7	18.2	17.1	18.5	18.9	19.6	21.1	20.0	21.4	21.8
	3H	17.8	19.2	18.2	19.5	19.9	21.3	22.7	21.7	23.0	23.3
	4H	18.1	19.4	18.5	19.8	20.1	22.0	23.3	22.4	23.7	24.0
	6H	18.3	19.4	18.7	19.8	20.2	22.5	23.7	23.0	24.1	24.5
	8H	18.2	19.4	18.7	19.8	20.2	22.7	23.8	23.1	24.2	24.6
	12H	18.2	19.3	18.7	19.7	20.1	22.7	23.8	23.1	24.1	24.6

UGR Viewed Endwise

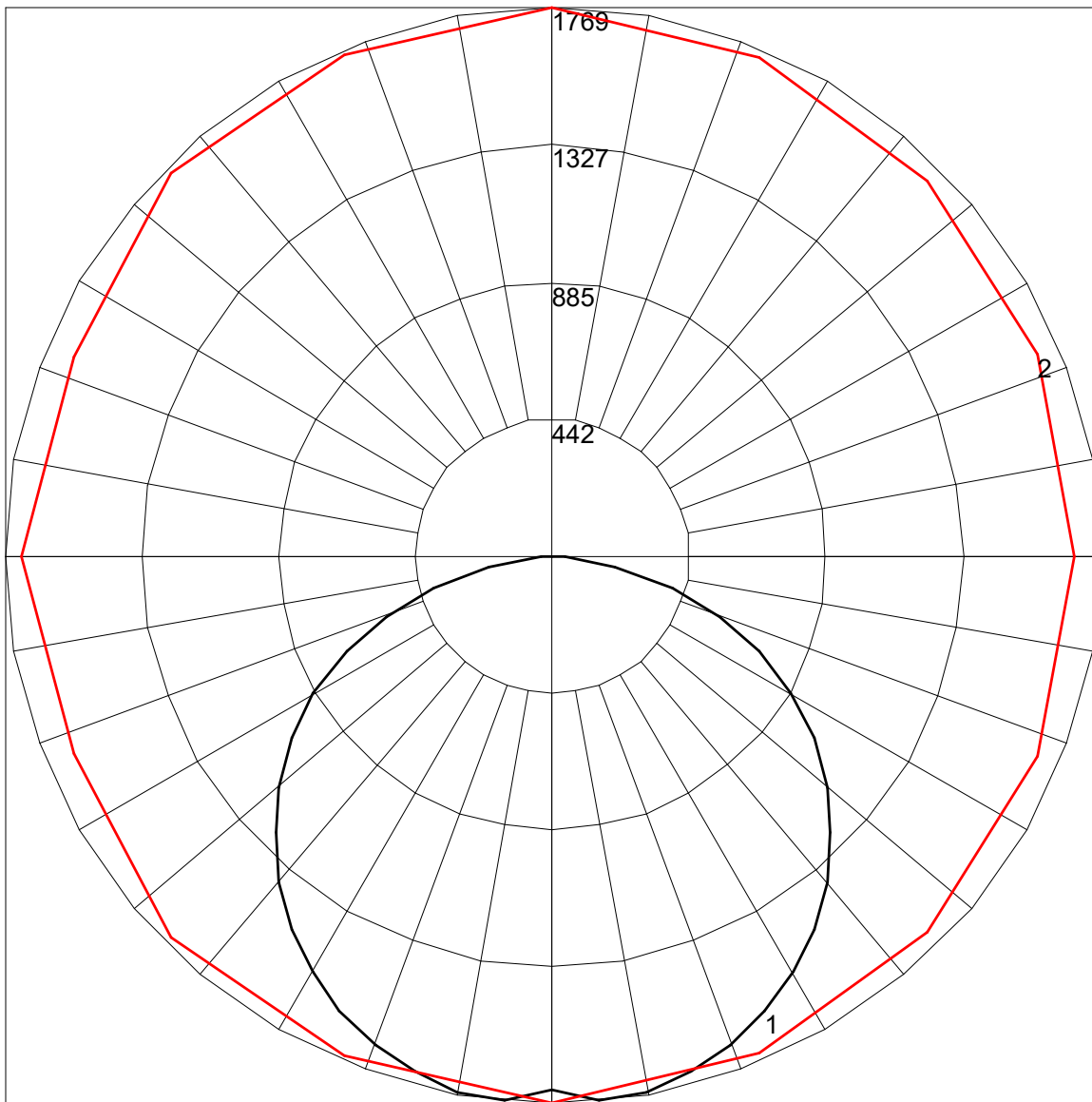
4H	2H	17.4	18.7	17.8	19.0	19.4	19.6	20.9	20.0	21.3	21.6
	3H	18.7	19.7	19.1	20.1	20.5	21.5	22.5	21.9	22.9	23.3
	4H	19.0	20.0	19.5	20.4	20.8	22.2	23.2	22.6	23.6	24.0
	6H	19.2	20.0	19.7	20.5	20.9	22.8	23.6	23.3	24.1	24.5
	8H	19.2	20.0	19.7	20.4	20.9	23.0	23.8	23.4	24.2	24.7
	12H	19.2	19.9	19.7	20.4	20.8	23.0	23.7	23.5	24.2	24.7

8H	4H	19.3	20.1	19.8	20.5	21.0	22.2	23.0	22.7	23.4	23.9
	6H	19.5	20.2	20.0	20.6	21.1	22.8	23.5	23.3	24.0	24.4
	8H	19.5	20.1	20.0	20.6	21.1	23.0	23.6	23.5	24.1	24.6
	12H	19.5	20.0	20.0	20.5	21.1	23.1	23.6	23.6	24.1	24.7

12H	4H	19.3	20.0	19.8	20.5	21.0	22.2	22.9	22.7	23.4	23.8
	6H	19.5	20.1	20.1	20.6	21.1	22.8	23.4	23.3	23.8	24.4
	8H	19.6	20.1	20.1	20.6	21.1	23.0	23.5	23.5	24.0	24.6

Maximum UGR = 24.7

POLAR GRAPH



Maximum Candela = 1769.279 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.)