



## IES INDOOR REPORT

PHOTOMETRIC FILENAME : PXF-42-03-08-L10-8TW-S-DIM-UNV 4000K\_.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-L10-8TW-S-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	3572
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	99
Total Luminaire Watts	35.9
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	9529	12198	14464
55	7676	9539	14467
65	5974	7340	14007
75	3629	4761	12518
85	0	791	3460

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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>
<b>0</b>	1591.164	1591.164	1591.164	1591.164	1591.164	1591.164	1591.164	1591.164	1591.164
<b>5</b>	1548.851	1561.643	1578.371	1601.988	1627.572	1611.828	1607.892	1539.010	1581.323
<b>10</b>	1516.378	1528.186	1549.835	1585.259	1618.716	1600.020	1588.212	1518.346	1556.723
<b>15</b>	1470.129	1484.889	1511.458	1545.899	1590.180	1568.531	1551.803	1477.017	1505.554
<b>20</b>	1420.928	1435.688	1458.321	1500.634	1548.851	1524.250	1494.729	1402.231	1408.136
<b>25</b>	1366.807	1381.567	1400.263	1444.544	1497.682	1468.161	1413.056	1260.532	1231.012
<b>30</b>	1306.781	1314.653	1327.446	1372.711	1430.768	1396.327	1290.053	1013.543	908.252
<b>35</b>	1126.705	1203.459	1253.644	1287.101	1355.982	1310.717	1068.648	693.736	581.557
<b>40</b>	931.869	986.974	1166.066	1201.491	1270.372	1199.523	790.170	402.465	596.317
<b>45</b>	769.505	821.658	985.006	1103.089	1168.034	1067.664	502.835	262.734	249.942
<b>50</b>	624.854	664.215	790.170	985.006	1067.664	895.460	461.506	217.469	214.517
<b>55</b>	502.835	527.436	624.854	868.891	947.613	666.183	208.613	184.996	190.900
<b>60</b>	386.721	415.257	480.203	703.576	821.658	406.401	169.252	174.172	184.996
<b>65</b>	288.318	305.047	354.248	499.883	676.023	228.293	146.619	163.348	172.204
<b>70</b>	186.964	198.772	246.006	324.727	529.404	123.987	131.859	139.731	141.699
<b>75</b>	107.258	115.131	140.715	196.804	369.992	89.546	104.306	105.290	103.322
<b>80</b>	42.313	51.169	62.977	92.498	189.916	67.898	65.929	63.961	61.009
<b>85</b>	0.000	1.968	7.872	18.696	34.441	24.601	23.617	20.664	22.633
<b>90</b>	0.000	0.000	0.000	0.000	0.000	0.000	0.984	0.000	0.000

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**ZONAL LUMEN SUMMARY**

Zone	Lumens	%Lamp	%Fixt
0-20	581.43	N.A.	16.30
0-30	1221.04	N.A.	34.20
0-40	1926.48	N.A.	53.90
0-60	3051.03	N.A.	85.40
0-80	3539.9	N.A.	99.10
0-90	3571.64	N.A.	100.00
10-90	3420.88	N.A.	95.80
20-40	1345.05	N.A.	37.70
20-50	1974.87	N.A.	55.30
40-70	1449.95	N.A.	40.60
60-80	488.87	N.A.	13.70
70-80	163.47	N.A.	4.60
80-90	31.74	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	3571.64	N.A.	100.00

Total Luminaire Efficiency = N.A. %

**ZONAL LUMEN SUMMARY**

Zone	Lumens
0-10	150.76
10-20	430.68
20-30	639.60
30-40	705.45
40-50	629.82
50-60	494.73
60-70	325.40
70-80	163.47
80-90	31.74
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	297	297	297	297	290	290	290	290	278	278	278	266	266	266	255	255	255	250
1	275	264	255	246	268	259	250	242	248	241	235	239	233	227	230	225	221	216
2	252	234	218	205	246	229	215	203	220	209	198	212	203	194	205	197	190	185
3	232	208	189	174	226	204	187	173	197	182	170	190	178	167	184	173	164	159
4	214	186	166	150	208	183	164	149	177	160	147	171	157	145	166	154	143	138
5	198	168	147	131	193	165	145	131	160	143	129	155	140	128	151	137	127	122
6	183	152	131	116	179	150	130	116	145	128	115	141	126	114	138	124	113	108
7	171	139	118	104	167	137	117	103	133	115	103	130	114	102	126	112	101	96
8	159	127	107	93	156	126	106	93	122	105	92	119	104	92	117	102	91	87
9	149	117	98	85	146	116	97	84	113	96	84	111	95	84	108	94	83	79
10	140	109	90	77	137	107	89	77	105	88	77	103	87	76	101	86	76	72

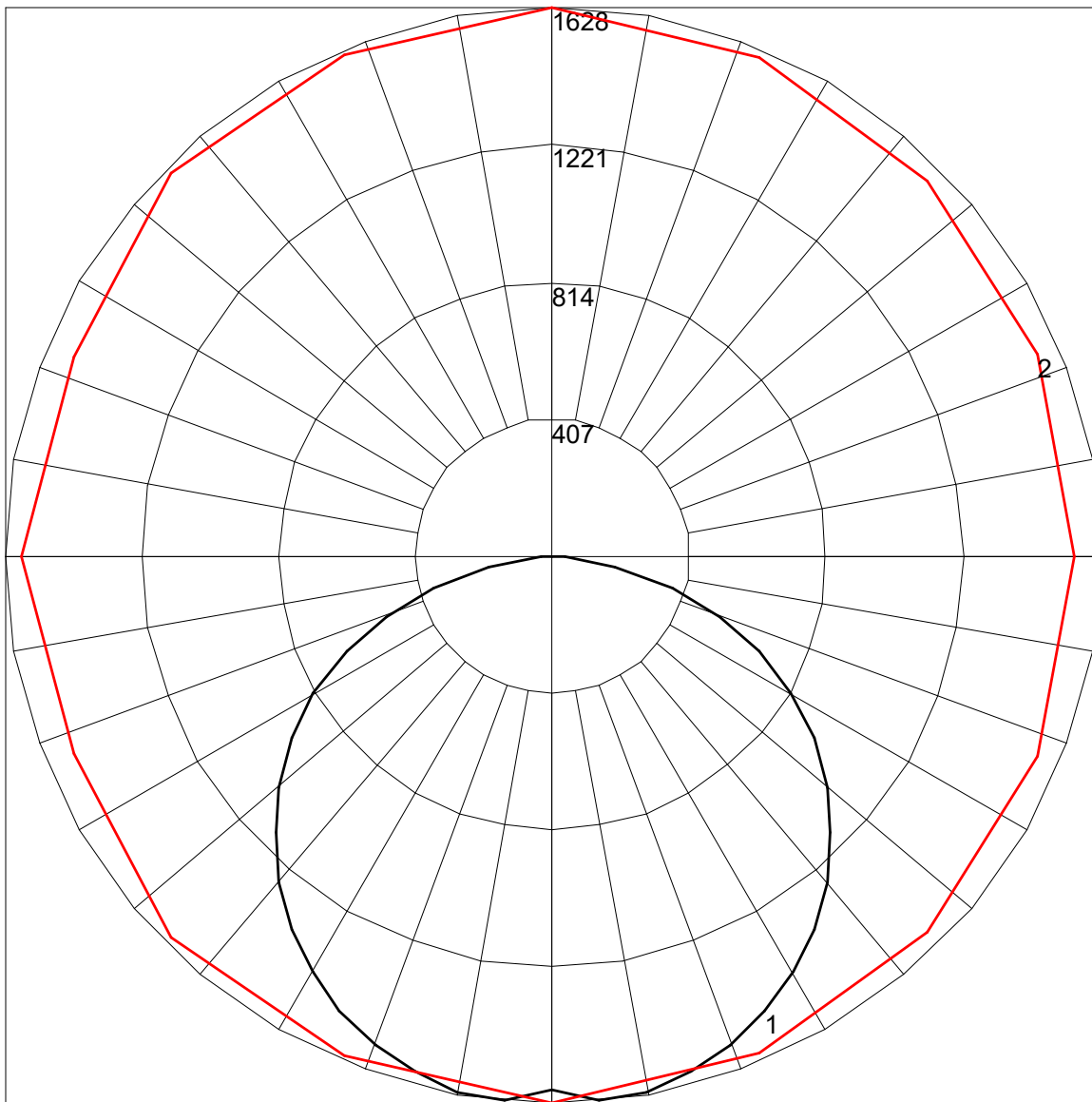
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**UGR TABLE - CORRECTED**

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	15.3	16.8	15.7	17.1	17.4	18.2	19.7	18.6	20.0	20.4
	3H	16.4	17.8	16.8	18.1	18.5	19.9	21.3	20.3	21.6	21.9
	4H	16.7	18.0	17.1	18.4	18.7	20.6	21.9	21.0	22.3	22.6
	6H	16.9	18.0	17.3	18.4	18.8	21.1	22.3	21.6	22.7	23.1
	8H	16.8	18.0	17.3	18.4	18.8	21.3	22.4	21.7	22.8	23.2
	12H	16.8	17.9	17.3	18.3	18.7	21.3	22.4	21.7	22.7	23.2
4H	2H	16.0	17.3	16.4	17.6	18.0	18.2	19.5	18.6	19.9	20.2
	3H	17.3	18.3	17.7	18.7	19.1	20.0	21.1	20.4	21.5	21.9
	4H	17.6	18.6	18.1	19.0	19.4	20.8	21.8	21.2	22.2	22.6
	6H	17.8	18.6	18.3	19.1	19.5	21.4	22.2	21.9	22.7	23.1
	8H	17.8	18.6	18.3	19.0	19.5	21.6	22.4	22.0	22.8	23.3
	12H	17.8	18.5	18.3	19.0	19.4	21.6	22.3	22.1	22.8	23.3
8H	4H	17.9	18.7	18.4	19.1	19.6	20.8	21.6	21.3	22.0	22.5
	6H	18.1	18.8	18.6	19.2	19.7	21.4	22.1	21.9	22.6	23.0
	8H	18.1	18.7	18.6	19.2	19.7	21.6	22.2	22.1	22.7	23.2
	12H	18.1	18.6	18.6	19.1	19.7	21.7	22.2	22.2	22.7	23.3
12H	4H	17.9	18.6	18.4	19.1	19.6	20.8	21.5	21.3	22.0	22.4
	6H	18.1	18.7	18.7	19.2	19.7	21.4	22.0	21.9	22.4	23.0
	8H	18.2	18.7	18.7	19.2	19.7	21.6	22.1	22.1	22.6	23.2

Maximum UGR = 23.3

POLAR GRAPH



Maximum Candela = 1627.572 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.)