



IES INDOOR REPORT

PHOTOMETRIC FILENAME : PXF-46-03-08-L7-8TW-G-DIM-UNV 4000K_.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-L7-8TW-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	2200
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	92
Total Luminaire Watts	23.8
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	1892	1696	20315
55	1724	1930	17700
65	1334	1698	13145
75	851	1168	5821
85	235	470	1411

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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	2772.971	2772.971	2772.971	2772.971	2772.971	2772.971	2772.971	2772.971	2772.971
5	1398.776	1461.399	1861.133	2319.979	2764.778	3145.198	3314.339	3264.006	3187.922
10	629.157	684.757	1007.821	1864.059	2697.473	3234.158	2957.329	2487.364	2238.627
15	310.774	379.835	567.704	1310.402	2618.462	3107.156	2247.991	1654.536	1422.187
20	186.699	190.210	354.669	889.013	2496.728	2727.906	1548.603	859.165	603.990
25	172.652	177.334	189.040	624.475	2377.920	2235.701	917.106	424.900	377.494
30	160.362	162.703	173.238	407.342	2217.558	1722.426	473.477	333.014	316.627
35	150.998	151.583	158.606	282.682	2044.905	1300.452	348.231	284.437	224.155
40	153.924	149.827	145.145	169.141	1857.622	870.285	286.193	178.505	157.435
45	152.753	152.753	136.951	148.657	1640.489	508.007	220.059	134.610	119.979
50	135.196	139.878	134.025	131.099	1408.140	306.677	139.878	103.006	94.227
55	112.956	117.638	126.417	112.956	1159.404	234.105	104.762	80.766	75.499
60	87.789	93.057	107.103	96.568	897.207	183.772	77.840	63.208	60.282
65	64.379	67.890	81.937	87.789	634.424	102.421	57.356	47.406	44.480
70	42.724	47.406	55.015	71.987	392.711	61.453	39.798	35.116	31.019
75	25.166	26.922	34.530	46.236	172.067	36.872	25.166	21.069	18.143
80	11.705	14.046	15.217	22.240	48.577	17.558	12.291	9.364	7.608
85	2.341	4.682	4.682	5.853	14.046	4.682	2.341	2.341	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	672.95	N.A.	30.60
0-30	1096.52	N.A.	49.80
0-40	1468.3	N.A.	66.70
0-60	1995.29	N.A.	90.70
0-80	2192.05	N.A.	99.60
0-90	2199.82	N.A.	100.00
10-90	1971.63	N.A.	89.60
20-40	795.35	N.A.	36.20
20-50	1095.14	N.A.	49.80
40-70	669.15	N.A.	30.40
60-80	196.76	N.A.	8.90
70-80	54.60	N.A.	2.50
80-90	7.77	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	2199.82	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	228.19
10-20	444.76
20-30	423.57
30-40	371.78
40-50	299.79
50-60	227.20
60-70	142.16
70-80	54.60
80-90	7.77
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	208	208	208	208	203	203	203	203	194	194	194	186	186	186	178	178	178	175
1	195	189	183	178	191	185	180	175	178	174	170	171	168	165	165	162	160	157
2	182	171	162	154	178	168	159	152	162	155	149	156	151	145	151	147	142	139
3	170	155	144	135	166	153	142	134	148	139	132	143	136	130	139	133	127	124
4	159	142	130	120	155	140	128	119	136	126	118	132	123	117	128	121	115	112
5	149	130	118	108	145	129	117	108	125	115	107	122	113	106	119	111	105	102
6	140	121	108	99	137	119	107	98	116	105	97	113	104	97	111	103	96	93
7	132	112	99	90	129	111	99	90	108	98	90	106	96	89	104	95	89	86
8	124	105	92	84	122	103	92	83	101	91	83	99	90	83	98	89	82	79
9	118	98	86	78	116	97	86	78	95	85	77	94	84	77	92	83	77	74
10	112	92	81	73	110	91	80	73	90	80	72	88	79	72	87	78	72	69

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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	8.1	9.5	8.5	9.8	10.1	15.9	17.2	16.2	17.5	17.8
	3H	9.3	10.5	9.7	10.9	11.2	18.7	19.9	19.1	20.3	20.6
	4H	9.6	10.8	10.0	11.1	11.5	19.3	20.4	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	21.2

UGR Viewed Endwise

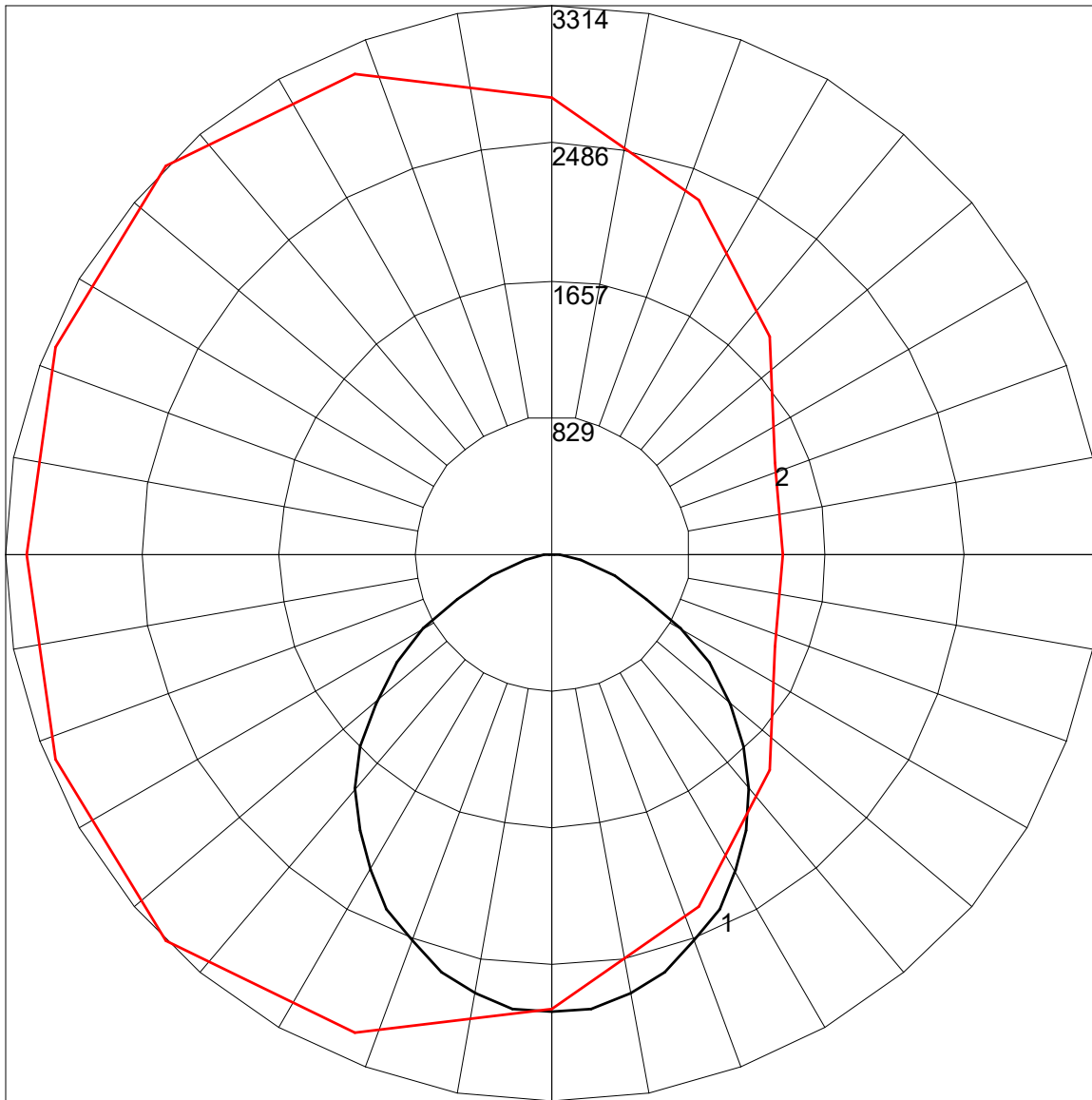
4H	2H	8.8	10.0	9.2	10.3	10.7	15.7	16.8	16.1	17.2	17.6
	3H	10.2	11.1	10.6	11.5	11.9	18.6	19.5	19.0	19.9	20.3
	4H	10.6	11.4	11.0	11.8	12.2	19.2	20.0	19.6	20.4	20.9
	6H	10.8	11.5	11.2	11.9	12.4	19.4	20.1	19.9	20.6	21.0
	8H	10.8	11.4	11.2	11.9	12.4	19.4	20.1	19.9	20.5	21.0
	12H	10.8	11.4	11.3	11.8	12.3	19.4	20.0	19.9	20.5	21.0

8H	4H	10.8	11.5	11.3	11.9	12.4	19.1	19.7	19.5	20.2	20.7
	6H	11.1	11.6	11.6	12.1	12.6	19.3	19.8	19.8	20.3	20.8
	8H	11.1	11.6	11.7	12.1	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	19.8	20.2	20.8

12H	4H	10.8	11.4	11.3	11.9	12.4	19.0	19.6	19.5	20.1	20.6
	6H	11.1	11.6	11.6	12.1	12.6	19.2	19.7	19.8	20.2	20.7
	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

POLAR GRAPH



Maximum Candela = 3314.339 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.)