



IES INDOOR REPORT

PHOTOMETRIC FILENAME : PXF-62-03-08-L4-8TW-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-L4-8TW-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	1448
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	113
Total Luminaire Watts	12.8
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	3564	3574	3903
55	3464	3496	3885
65	2465	3074	3706
75	1386	1857	3128
85	0	106	660

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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	639.668	639.668	639.668	639.668	639.668	639.668	639.668	639.668	639.668
5	623.548	625.121	631.804	643.206	658.932	650.283	645.172	616.471	632.984
10	609.788	612.540	620.796	636.129	655.001	645.565	633.770	603.104	615.685
15	593.275	594.061	603.890	621.582	641.633	632.198	616.471	579.908	586.198
20	573.617	575.583	582.660	601.138	626.693	610.574	588.950	541.378	525.652
25	552.387	552.387	559.463	575.976	603.890	584.232	543.737	461.960	419.892
30	528.404	528.011	532.336	549.241	578.728	552.387	483.584	349.910	272.458
35	502.849	500.490	499.703	517.002	548.848	512.284	380.183	200.510	128.956
40	469.430	467.858	467.858	476.507	513.071	459.601	249.655	101.828	79.025
45	430.901	429.328	432.080	438.764	471.789	402.200	125.024	68.016	61.726
50	393.944	391.192	391.192	393.158	431.294	314.919	71.162	53.863	48.752
55	339.688	351.876	342.834	351.483	380.970	213.485	52.683	42.854	45.213
60	249.655	262.236	297.227	292.116	330.646	105.759	38.923	40.102	43.641
65	178.100	184.391	222.134	228.031	267.740	45.213	34.991	38.529	41.675
70	114.802	121.879	142.716	185.570	209.553	29.487	32.632	36.564	38.529
75	61.333	66.837	82.170	123.452	138.392	21.624	28.307	30.666	30.666
80	22.410	24.376	32.239	53.076	69.196	16.513	19.658	19.658	19.265
85	0.000	0.393	1.573	7.863	9.829	7.470	8.256	8.256	7.470
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	232.36	N.A.	16.00
0-30	482.90	N.A.	33.30
0-40	755.28	N.A.	52.20
0-60	1222.28	N.A.	84.40
0-80	1436.23	N.A.	99.20
0-90	1448.14	N.A.	100.00
10-90	1387.63	N.A.	95.80
20-40	522.92	N.A.	36.10
20-50	776.39	N.A.	53.60
40-70	609.58	N.A.	42.10
60-80	213.95	N.A.	14.80
70-80	71.37	N.A.	4.90
80-90	11.91	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	1448.14	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	60.52
10-20	171.85
20-30	250.54
30-40	272.38
40-50	253.47
50-60	213.52
60-70	142.59
70-80	71.37
80-90	11.91
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	68	68	68	68	66	66	66	66	63	63	63	61	61	61	58	58	58	57
1	63	60	58	56	61	59	57	55	57	55	53	54	53	52	52	51	50	49
2	58	53	50	47	56	52	49	46	50	47	45	48	46	44	47	45	43	42
3	53	47	43	39	51	46	42	39	45	41	38	43	40	38	42	39	37	36
4	49	42	37	34	47	41	37	34	40	36	33	39	35	33	38	35	32	31
5	45	38	33	30	44	37	33	29	36	32	29	35	32	29	34	31	28	27
6	42	34	30	26	41	34	29	26	33	29	26	32	28	25	31	28	25	24
7	39	31	27	23	38	31	26	23	30	26	23	29	26	23	28	25	23	22
8	36	29	24	21	35	28	24	21	28	24	21	27	23	21	26	23	20	19
9	34	26	22	19	33	26	22	19	26	22	19	25	21	19	24	21	19	18
10	32	25	20	17	31	24	20	17	24	20	17	23	20	17	23	19	17	16

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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	19.2	20.7	19.5	21.0	21.3	18.3	19.9	18.7	20.2	20.5
	3H	20.2	21.6	20.6	21.9	22.3	20.3	21.7	20.7	22.0	22.4
	4H	20.4	21.7	20.8	22.1	22.5	21.1	22.4	21.5	22.7	23.1
	6H	20.5	21.7	20.9	22.1	22.5	21.5	22.7	22.0	23.1	23.5
	8H	20.5	21.6	20.9	22.0	22.4	21.6	22.8	22.1	23.2	23.6
	12H	20.5	21.6	20.9	21.9	22.4	21.7	22.8	22.1	23.1	23.6

UGR Viewed Endwise

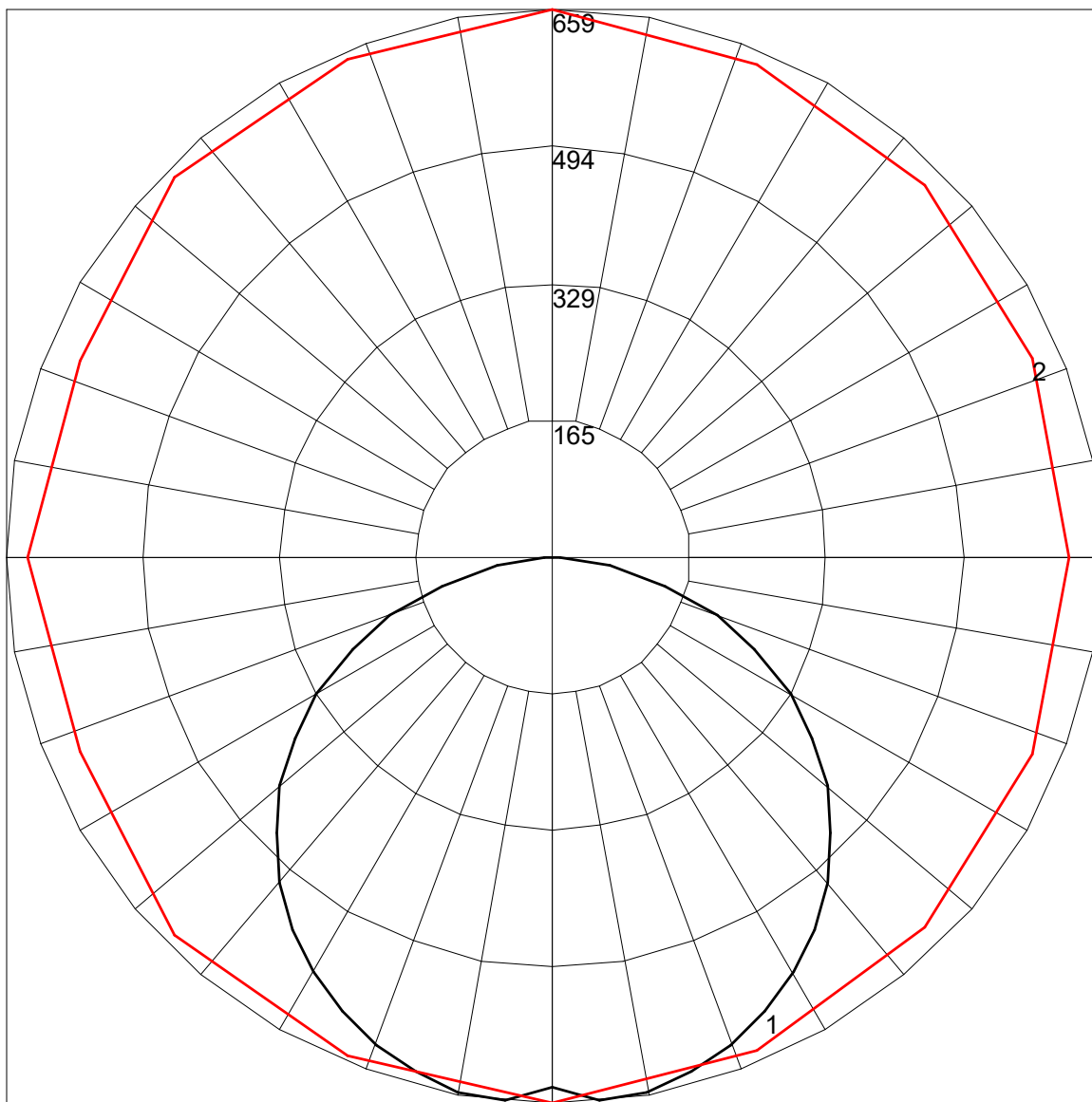
4H	2H	19.8	21.1	20.2	21.4	21.8	18.7	20.0	19.1	20.3	20.7
	3H	21.0	22.0	21.4	22.4	22.8	20.8	21.8	21.2	22.2	22.6
	4H	21.2	22.2	21.7	22.6	23.1	21.6	22.6	22.0	23.0	23.4
	6H	21.4	22.2	21.8	22.7	23.1	22.2	23.0	22.6	23.4	23.9
	8H	21.4	22.1	21.8	22.6	23.1	22.3	23.1	22.7	23.5	24.0
	12H	21.3	22.0	21.8	22.5	23.0	22.3	23.0	22.8	23.5	24.0

8H	4H	21.5	22.3	21.9	22.7	23.2	21.7	22.4	22.1	22.9	23.4
	6H	21.6	22.3	22.1	22.7	23.2	22.2	22.9	22.7	23.4	23.9
	8H	21.6	22.2	22.1	22.7	23.2	22.4	23.0	22.9	23.5	24.0
	12H	21.6	22.1	22.1	22.6	23.1	22.4	22.9	22.9	23.4	24.0

12H	4H	21.5	22.2	22.0	22.7	23.1	21.6	22.3	22.1	22.8	23.3
	6H	21.6	22.2	22.1	22.7	23.2	22.2	22.8	22.7	23.3	23.8
	8H	21.6	22.1	22.1	22.6	23.2	22.4	22.9	22.9	23.4	23.9

Maximum UGR = 24.0

POLAR GRAPH



Maximum Candela = 658.932 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.)