



IES INDOOR REPORT

PHOTOMETRIC FILENAME : PXF-42-03-08-P6-835-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-P6-835-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	2083
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	109
Total Luminaire Watts	19.1
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	5557	7113	8435
55	4477	5563	8436
65	3484	4280	8168
75	2116	2776	7300
85	0	461	2018

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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	927.882	927.882	927.882	927.882	927.882	927.882	927.882	927.882	927.882
5	903.207	910.667	920.422	934.194	949.113	939.932	937.637	897.469	922.143
10	884.271	891.157	903.781	924.439	943.949	933.046	926.160	885.418	907.798
15	857.301	865.908	881.402	901.486	927.308	914.684	904.929	861.318	877.959
20	828.609	837.217	850.415	875.089	903.207	888.861	871.647	817.707	821.150
25	797.049	805.656	816.559	842.381	873.368	856.153	824.019	735.075	717.860
30	762.045	766.636	774.096	800.492	834.348	814.264	752.290	591.044	529.644
35	657.034	701.793	731.058	750.569	790.737	764.340	623.178	404.550	339.133
40	543.416	575.551	679.988	700.645	740.813	699.498	460.785	234.696	347.740
45	448.734	479.147	574.403	643.263	681.135	622.605	293.227	153.212	145.753
50	364.382	387.335	460.785	574.403	622.605	522.185	269.126	126.816	125.095
55	293.227	307.572	364.382	506.691	552.597	388.482	121.652	107.880	111.323
60	225.515	242.156	280.029	410.288	479.147	236.991	98.699	101.568	107.880
65	168.132	177.887	206.579	291.505	394.221	133.128	85.501	95.256	100.420
70	109.028	115.913	143.457	189.364	308.720	72.302	76.893	81.484	82.631
75	62.547	67.138	82.058	114.766	215.760	52.218	60.826	61.400	60.252
80	24.675	29.839	36.725	53.940	110.749	39.594	38.447	37.299	35.577
85	0.000	1.148	4.591	10.903	20.084	14.346	13.772	12.050	13.198
90	0.000	0.000	0.000	0.000	0.000	0.000	0.574	0.000	0.000

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ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixt
0-20	339.06	N.A.	16.30
0-30	712.04	N.A.	34.20
0-40	1123.42	N.A.	53.90
0-60	1779.2	N.A.	85.40
0-80	2064.28	N.A.	99.10
0-90	2082.79	N.A.	100.00
10-90	1994.88	N.A.	95.80
20-40	784.36	N.A.	37.70
20-50	1151.64	N.A.	55.30
40-70	845.53	N.A.	40.60
60-80	285.08	N.A.	13.70
70-80	95.33	N.A.	4.60
80-90	18.51	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	2082.79	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	87.91
10-20	251.15
20-30	372.98
30-40	411.38
40-50	367.28
50-60	288.50
60-70	189.75
70-80	95.33
80-90	18.51
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	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100
1	110	106	102	99	107	103	100	97	99	96	94	95	93	91	92	90	88	86
2	101	94	87	82	98	92	86	81	88	83	79	85	81	78	82	79	76	74
3	93	83	76	70	90	82	75	69	79	73	68	76	71	67	74	69	66	64
4	86	74	66	60	83	73	66	60	71	64	59	68	63	58	66	61	57	55
5	79	67	59	53	77	66	58	52	64	57	52	62	56	51	60	55	51	49
6	73	61	52	46	72	60	52	46	58	51	46	57	50	45	55	49	45	43
7	68	56	47	41	67	55	47	41	53	46	41	52	45	41	51	45	40	39
8	64	51	43	37	62	50	43	37	49	42	37	48	41	37	47	41	37	35
9	60	47	39	34	58	46	39	34	45	38	34	44	38	33	43	37	33	32
10	56	43	36	31	55	43	36	31	42	35	31	41	35	31	40	35	30	29

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UGR TABLE - CORRECTED

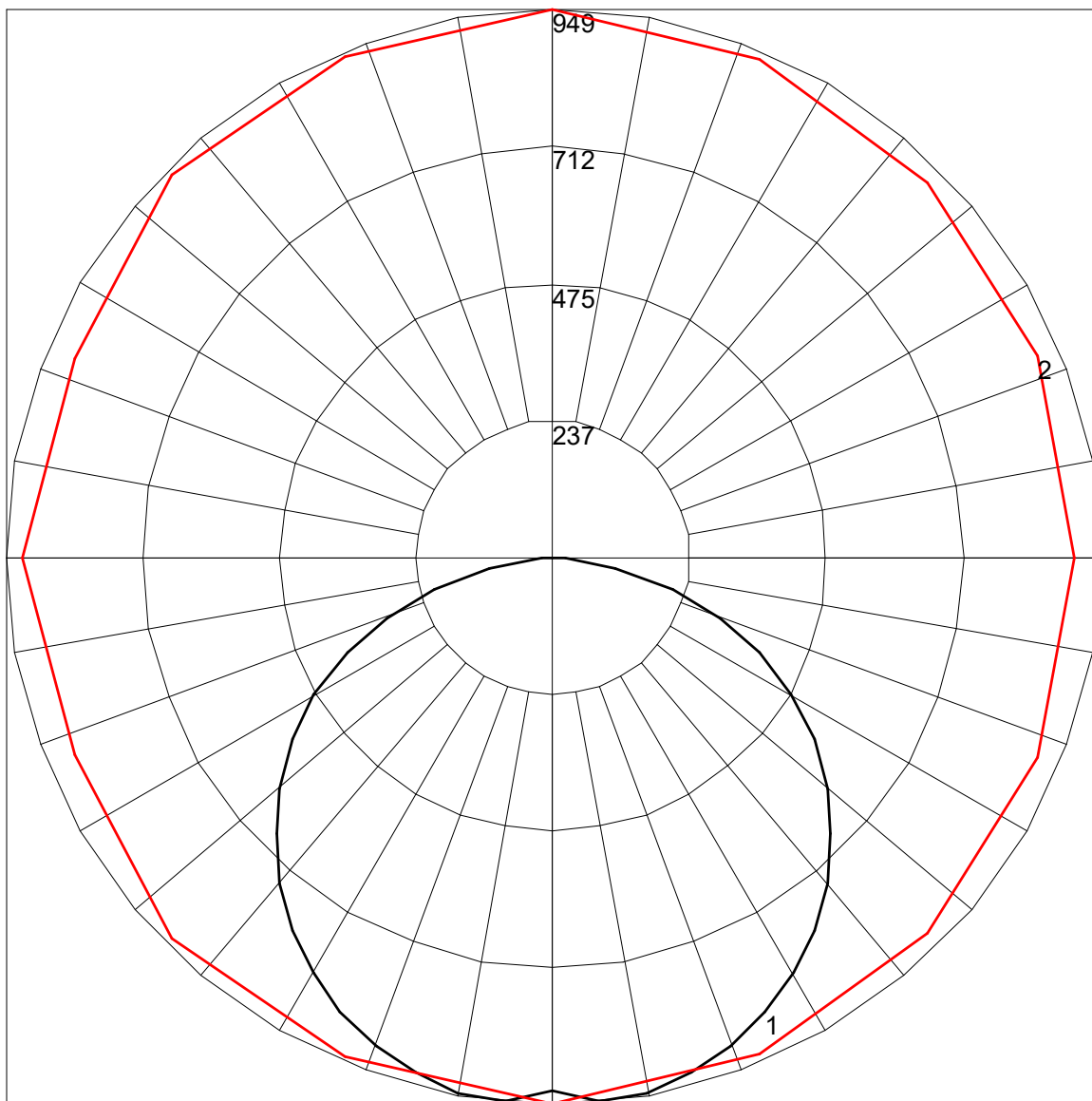
Reflectances

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	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
4H	2H	17.4	18.7	17.8	19.0	19.4	19.6	20.9	20.0	21.3	21.7
	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	23.9	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 = 949.113 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.)