IES INDOOR REPORT
PHOTOMETRIC FILENAME : PXF-46-03-08-L10-835-G-XXXX-XXXX-DIM-UNV.IES

DESCRIPTION INFORMATION (From Photometric File)

IESNA:LM-63-2002
[TEST]BALLABS TEST NO. 20586.0
[TESTLAB] BUILDING ACOUSTICS & LIGHTING LABORATORIES, INC
[ISSUEDATE] 03-20-2020
[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-L10-835-G-xxxx-xxxx-DIM-UNV
[LAMPCAT] HLM 80 CRI, 3500K CCT
[_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	3759
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	102
Total Luminaire Watts	37
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	3232	2898	34711
55	2946	3298	30243
65	2279	2901	22460
75	1455	1996	9947
85	402	804	2411

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CANDELA TABULATION

	0.0	22.5	45.0	67.5	90.0	112.5	135.0	157.5	180.0
0	4738	4738	4738	4738	4738	4738	4738	4738	4738
5	2390	2497	3180	3964	4724	5374	5663	5577	5447
10	1075	1170	1722	3185	4609	5526	5053	4250	3825
15	531	649	970	2239	4474	5309	3841	2827	2430
20	319	325	606	1519	4266	4661	2646	1468	1032
25	295	303	323	1067	4063	3820	1567	726	645
30	274	278	296	696	3789	2943	809	569	541
35	258	259	271	483	3494	2222	595	486	383
40	263	256	248	289	3174	1487	489	305	269
45	261	261	234	254	2803	868	376	230	205
50	231	239	229	224	2406	524	239	176	161
55	193	201	216	193	1981	400	179	138	129
60	150	159	183	165	1533	314	133	108	103
65	110	116	140	150	1084	175	98	81	76
70	73	81	94	123	671	105	68	60	53
75	43	46	59	79	294	63	43	36	31
80	20	24	26	38	83	30	21	16	13
85	4	8	8	10	24	8	4	4	0
90	0	0	0	0	0	0	0	0	0

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ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixt
0-20	1149.83	N.A.	30.60
0-30	1873.56	N.A.	49.80
0-40	2508.79	N.A.	66.70
0-60	3409.22	N.A.	90.70
0-80	3745.41	N.A.	99.60
0-90	3758.69	N.A.	100.00
10-90	3368.81	N.A.	89.60
20-40	1358.96	N.A.	36.20
20-50	1871.2	N.A.	49.80
40-70	1143.34	N.A.	30.40
60-80	336.19	N.A.	8.90
70-80	93.28	N.A.	2.50
80-90	13.28	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	3758.69	N.A.	100.00

Total Luminaire Efficiency = N.A.%

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	389.89
10-20	759.94
20-30	723.73
30-40	635.23
40-50	512.23
50-60	388.20
60-70	242.91
70-80	93.28
80-90	13.28
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	112	108	105	102	109	106	103	100	102	99	97	98	96	94	94	93	91	90
2	104	98	92	88	102	96	91	87	92	88	85	89	86	83	86	84	81	80
3	97	89	82	77	95	87	81	77	84	79	75	82	78	74	80	76	73	71
4	91	81	74	69	89	80	73	68	78	72	67	75	71	67	73	69	66	64
5	85	75	67	62	83	74	67	62	72	66	61	70	65	60	68	64	60	58
6	80	69	62	56	78	68	61	56	66	60	56	65	59	55	63	59	55	53
7	75	64	57	52	74	63	56	52	62	56	51	61	55	51	59	54	51	49
8	71	60	53	48	70	59	52	48	58	52	47	57	51	47	56	51	47	45
9	67	56	49	44	66	56	49	44	54	48	44	54	48	44	53	48	44	42
10	64	53	46	42	63	52	46	42	51	45	41	51	45	41	50	45	41	40

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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	11.9	13.3	12.3	13.6	13.9	19.7	21.0	20.0	21.3	21.6
	3H	13.1	14.3	13.5	14.7	15.0	22.5	23.7	22.9	24.1	24.4
	4H	13.4	14.6	13.8	14.9	15.3	23.1	24.2	23.5	24.6	25.0
	6H	13.6	14.6	14.0	15.0	15.4	23.3	24.3	23.7	24.7	25.1
	8H	13.6	14.6	14.0	15.0	15.4	23.3	24.3	23.7	24.7	25.1
	12H	13.6	14.5	14.0	14.9	15.3	23.3	24.2	23.7	24.6	25.0
4H	2H	12.6	13.8	13.0	14.1	14.5	19.5	20.6	19.9	21.0	21.4
	3H	14.0	14.9	14.4	15.3	15.7	22.4	23.3	22.8	23.7	24.1
	4H	14.4	15.2	14.8	15.6	16.0	23.0	23.8	23.4	24.2	24.7
	6H	14.6	15.3	15.0	15.7	16.2	23.2	23.9	23.7	24.4	24.8
	8H	14.6	15.3	15.0	15.7	16.2	23.2	23.9	23.7	24.3	24.8
	12H	14.6	15.2	15.1	15.6	16.1	23.2	23.8	23.7	24.3	24.8
8H	4H	14.6	15.3	15.1	15.7	16.2	22.9	23.5	23.3	24.0	24.5
	6H	14.9	15.4	15.4	15.9	16.4	23.1	23.6	23.6	24.1	24.6
	8H	14.9	15.4	15.5	15.9	16.4	23.1	23.6	23.6	24.1	24.6
	12H	15.0	15.4	15.5	15.9	16.5	23.1	23.6	23.6	24.0	24.6
12H	4H	14.6	15.2	15.1	15.7	16.2	22.8	23.4	23.3	23.9	24.4
	6H	14.9	15.4	15.4	15.9	16.4	23.0	23.5	23.6	24.0	24.5
	8H	15.0	15.4	15.5	15.9	16.5	23.1	23.5	23.6	24.0	24.6

Maximum UGR = 25.1

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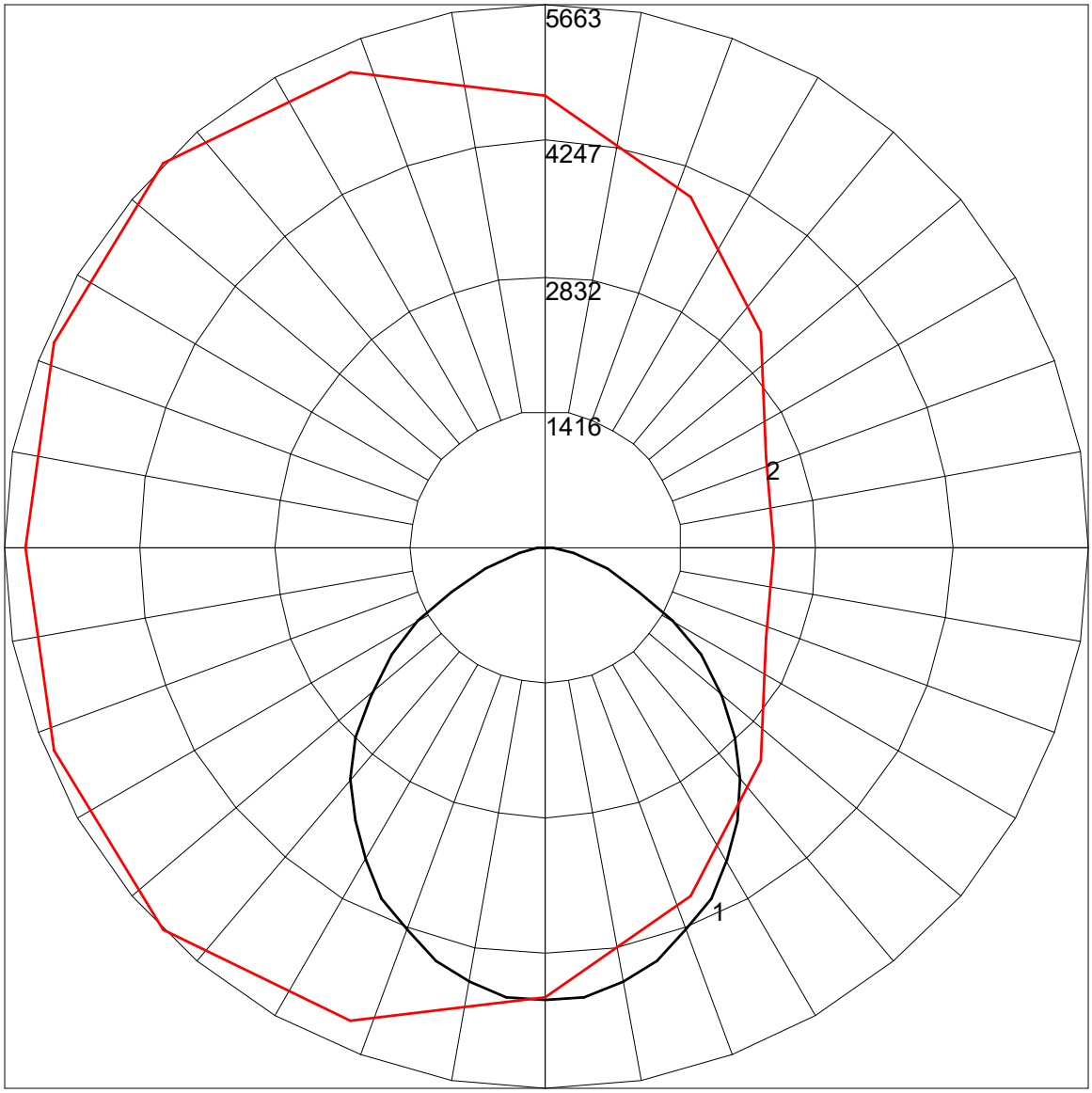
POLAR GRAPH



Maximum Candela = 5663 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.)

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