H.E. WILLIAMS, INC.

IES INDOOR REPORT
PHOTOMETRIC FILENAME : GL-4-L300-835-SCHA118-(L280)-DIM-UNV_.IES

DESCRIPTION INFORMATION (From Photometric File)

IESNA:LM-63-2002
[TEST] GEN FROM BALLABS TEST NO. 19725.0
[TESTLAB] BUILDING ACOUSTICS & LIGHTING LABORATORIES, INC
[ISSUEDATE] 12-DEC-2023
[MANUFAC] WILLIAMS INDOOR
[OTHER] H.E. WILLIAMS, INC - CARTHAGE, MO
[LUMINAIRE] 6-42 LED 22"ARRAYS 4'SUSPENDED DIRECT LUMINAIRE
[MORE] WHITE REFLECTOR w/.118"THK CLEAR ACRYLIC LENS IN DOOR
[LUMCAT] GL-4-L300-835-SCHA118-(L280)-DRV-UNV
[LAMPCAT] HLM 80 CRI 3500K CCT
[_SEARCH_SOURCETYPE] LED
[_SEARCH_CRI] 80
[_SEARCH_COLORTEMP] 3500
[_SEARCH_APPLICATION] Indoor, Commercial, Industrial, Manufacturing, High Bay
[_SEARCH_MOUNTING] Cable, Pendant, Suspended

CHARACTERISTICS

Lumens Per Lamp	N.A. (absolute)
Total Lamp Lumens	N.A. (absolute)
Luminaire Lumens	25368
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	138
Total Luminaire Watts	183.7
Ballast Factor	1.00
CIE Type	Direct
Spacing Criterion (0-180)	1.34
Spacing Criterion (90-270)	1.32
Spacing Criterion (Diagonal)	1.42
Basic Luminous Shape	Rectangular
Luminous Length (0-180)	3.83 ft
Luminous Width (90-270)	1.00 ft
Luminous Height	0.00 ft

LUMINANCE DATA (cd/sq.m)

Angle In Degrees	Average 0-Deg	Average 45-Deg	Average 90-Deg
45	27209	26652	20344
55	25816	18925	19174
65	21644	16785	16412
75	14052	9457	6982
85	2800	2858	2391

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CANDELA TABULATION

	0.0	22.5	45.0	67.5	90.0
0	9506.545	9506.545	9506.545	9506.545	9506.545
5	9612.536	9502.922	9434.073	9398.743	9407.802
10	9528.287	9418.673	9360.695	9321.741	9334.424
15	9364.319	9285.505	9226.621	9162.302	9185.856
20	9157.773	9044.535	8997.428	8940.356	8975.686
25	8881.472	8736.528	8724.751	8698.480	8703.915
30	8506.428	8373.261	8380.508	8340.648	8364.202
35	8026.300	7868.673	7947.486	7928.462	7933.898
40	7489.099	7312.448	7349.590	7445.616	7431.122
45	6857.685	6692.811	6717.270	6208.153	5127.411
50	6102.162	6006.136	6018.819	4434.395	4476.972
55	5277.790	5226.154	3869.111	3922.560	3919.842
60	4361.017	4316.627	3234.073	3296.581	3296.581
65	3260.345	3312.887	2528.375	2615.342	2472.209
70	2223.086	1761.075	1803.653	1659.614	1311.747
75	1296.347	1018.235	872.385	799.912	644.097
80	515.459	448.422	327.937	268.147	249.123
85	86.967	77.908	88.778	89.684	74.284
90	0.000	0.000	0.000	0.000	0.000

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ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixt
0-20	3509.47	N.A.	13.80
0-30	7537.78	N.A.	29.70
0-40	12496.62	N.A.	49.30
0-60	21449.17	N.A.	84.60
0-80	25225.04	N.A.	99.40
0-90	25367.92	N.A.	100.00
10-90	24467.04	N.A.	96.40
20-40	8987.15	N.A.	35.40
20-50	13933.77	N.A.	54.90
40-70	11692.00	N.A.	46.10
60-80	3775.87	N.A.	14.90
70-80	1036.42	N.A.	4.10
80-90	142.88	N.A.	0.60
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	25367.92	N.A.	100.00

Total Luminaire Efficiency = N.A.%

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	900.89
10-20	2608.58
20-30	4028.31
30-40	4958.84
40-50	4946.62
50-60	4005.94
60-70	2739.45
70-80	1036.42
80-90	142.88
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	98	107	103	100	97	99	96	94	95	93	91	92	90	88	86
2	101	93	87	81	98	91	85	80	88	83	78	84	80	77	81	78	75	73
3	92	82	74	68	90	81	73	68	78	72	67	75	70	65	72	68	64	62
4	84	73	65	58	82	72	64	58	69	62	57	67	61	56	65	60	56	53
5	78	65	57	50	76	64	56	50	62	55	50	60	54	49	58	53	49	46
6	72	59	50	44	70	58	50	44	56	49	44	55	48	43	53	47	43	41
7	67	54	45	39	65	53	45	39	51	44	39	50	43	38	48	43	38	36
8	62	49	41	35	61	48	40	35	47	40	35	46	39	34	44	39	34	32
9	58	45	37	31	57	44	37	31	43	36	31	42	36	31	41	35	31	29
10	54	41	34	28	53	41	33	28	40	33	28	39	33	28	38	32	28	26

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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	23.9	25.4	24.2	25.7	26.1	21.9	23.5	22.3	23.8	24.1
	3H	25.1	26.5	25.4	26.8	27.2	23.1	24.5	23.5	24.9	25.2
	4H	25.4	26.7	25.8	27.1	27.5	23.3	24.7	23.7	25.0	25.4
	6H	25.6	26.8	26.0	27.1	27.5	23.4	24.6	23.8	25.0	25.4
	8H	25.6	26.7	26.0	27.1	27.5	23.4	24.5	23.8	24.9	25.3
	12H	25.6	26.7	26.0	27.0	27.5	23.4	24.5	23.8	24.9	25.3
4H	2H	24.1	25.4	24.5	25.8	26.2	22.5	23.8	22.9	24.1	24.5
	3H	25.5	26.6	25.9	27.0	27.4	23.9	25.0	24.3	25.4	25.8
	4H	25.9	26.9	26.3	27.3	27.7	24.2	25.1	24.6	25.6	26.0
	6H	26.1	26.9	26.6	27.4	27.9	24.3	25.1	24.7	25.5	26.0
	8H	26.1	26.9	26.6	27.4	27.8	24.2	25.0	24.7	25.5	25.9
	12H	26.1	26.8	26.6	27.3	27.8	24.2	24.9	24.7	25.4	25.9
8H	4H	25.9	26.7	26.4	27.2	27.6	24.3	25.1	24.8	25.5	26.0
	6H	26.2	26.8	26.7	27.3	27.8	24.4	25.1	24.9	25.5	26.0
	8H	26.2	26.8	26.7	27.3	27.8	24.4	25.0	24.9	25.5	26.0
	12H	26.2	26.7	26.7	27.2	27.8	24.4	24.9	24.9	25.4	26.0
12H	4H	25.9	26.6	26.4	27.1	27.6	24.3	25.0	24.8	25.5	25.9
	6H	26.1	26.7	26.7	27.2	27.7	24.4	25.0	24.9	25.4	26.0
	8H	26.2	26.7	26.7	27.2	27.8	24.4	24.9	24.9	25.4	26.0

Maximum UGR = 27.9

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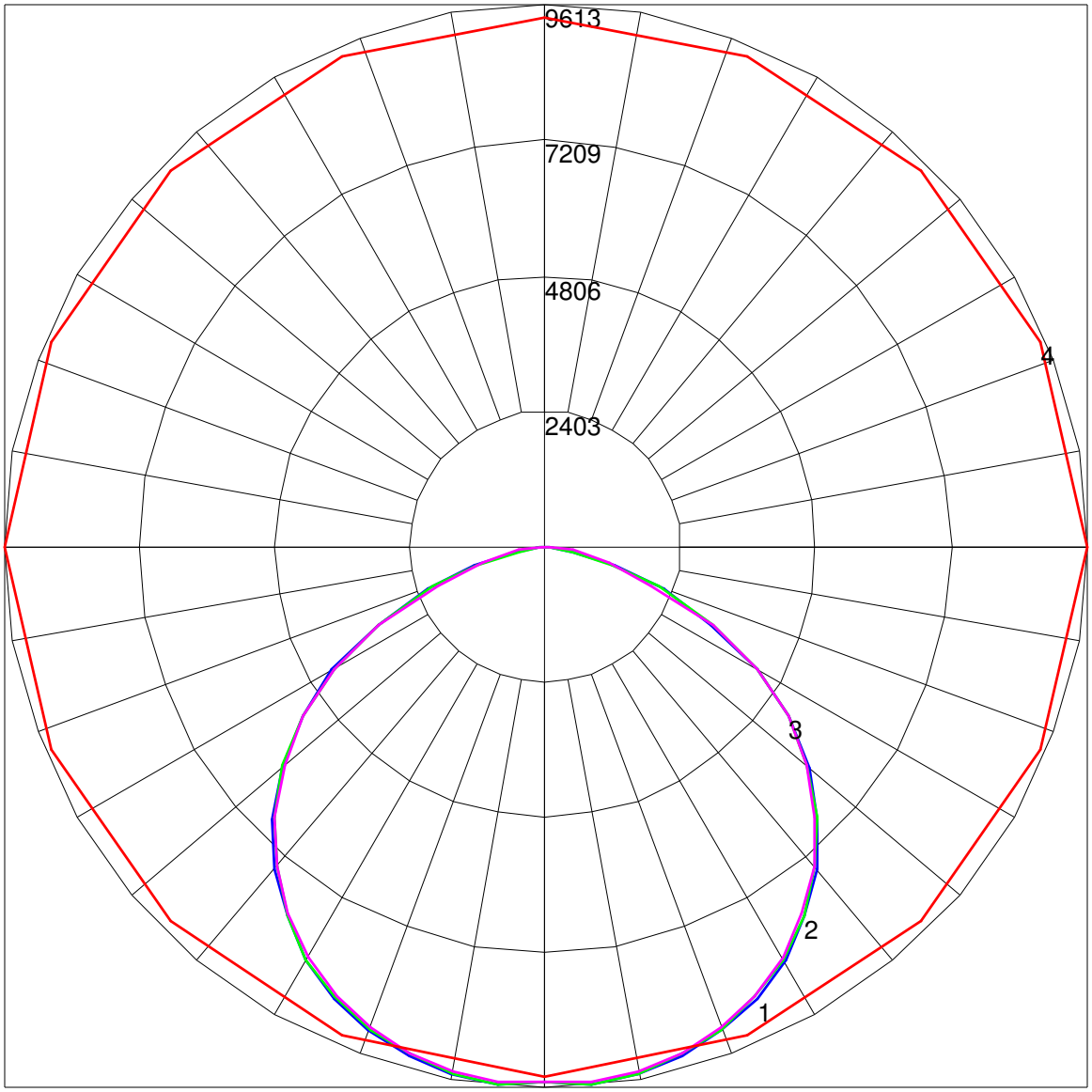
POLAR GRAPH



Maximum Candela = 9612.536 Located At Horizontal Angle = 0, Vertical Angle = 5
1 - Vertical Plane Through Horizontal Angles (0 - 180) (Through Max. Cd.)
2 - Vertical Plane Through Horizontal Angles (5 - 185)
3 - Vertical Plane Through Horizontal Angles (10 - 190)
4 - Horizontal Cone Through Vertical Angle (5) (Through Max. Cd.)

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