H.E. WILLIAMS, INC.

IES INDOOR REPORT
PHOTOMETRIC FILENAME : GL-4-L300-940-SCHA118-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] 2023-07-17
[MANUFAC] WILLIAMS INDOOR
[OTHER] H.E. WILLIAMS, INC - CARTHAGE, MO
[LUMINAIRE] 48 INCH LOW PROFILE LED HIGHBAY LUMINAIRE
[MORE] WHITE REFLECTOR w/.118"THK CLEAR ACRYLIC LENS
[MORE] 0-10V UNIVERSAL VOLTAGE 122-277V DRIVERS
[LUMCAT] GL-4-L300-940-SCHA118-DIM-UNV_
[LAMPCAT] 22 INCH HLM LINEAR LED ARRAYS
[_SEARCH_SOURCETYPE] LED
[_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	23139
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	116
Total Luminaire Watts	200
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	24819	24311	18557
55	23548	17263	17489
65	19743	15310	14970
75	12818	8626	6369
85	2554	2607	2181

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CANDELA TABULATION

	0.0	22.5	45.0	67.5	90.0
0	8671.320	8671.320	8671.320	8671.320	8671.320
5	8767.999	8668.015	8605.215	8572.989	8581.252
10	8691.152	8591.168	8538.284	8502.752	8514.321
15	8541.589	8469.700	8415.990	8357.321	8378.806
20	8353.190	8249.901	8206.933	8154.875	8187.101
25	8101.165	7968.955	7958.213	7934.250	7939.207
30	7759.071	7637.604	7644.214	7607.856	7629.340
35	7321.126	7177.348	7249.237	7231.884	7236.842
40	6831.123	6669.992	6703.871	6791.460	6778.239
45	6255.183	6104.794	6127.105	5662.717	4676.927
50	5566.039	5478.450	5490.018	4044.798	4083.635
55	4814.095	4766.995	3529.179	3577.932	3575.453
60	3977.867	3937.378	2949.934	3006.950	3006.950
65	2973.898	3021.824	2306.237	2385.563	2255.006
70	2027.770	1606.351	1645.188	1513.804	1196.500
75	1182.453	928.775	795.739	729.634	587.508
80	470.172	409.025	299.125	244.588	227.236
85	79.326	71.063	80.979	81.805	67.758
90	0.000	0.000	0.000	0.000	0.000

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ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixt
0-20	3201.13	N.A.	13.80
0-30	6875.52	N.A.	29.70
0-40	11398.69	N.A.	49.30
0-60	19564.69	N.A.	84.60
0-80	23008.82	N.A.	99.40
0-90	23139.15	N.A.	100.00
10-90	22317.42	N.A.	96.40
20-40	8197.56	N.A.	35.40
20-50	12709.58	N.A.	54.90
40-70	10664.77	N.A.	46.10
60-80	3444.13	N.A.	14.90
70-80	945.36	N.A.	4.10
80-90	130.33	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	23139.15	N.A.	100.00

Total Luminaire Efficiency = N.A.%

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	821.74
10-20	2379.4
20-30	3674.39
30-40	4523.17
40-50	4512.02
50-60	3653.99
60-70	2498.76
70-80	945.36
80-90	130.33
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	23.6	25.1	23.9	25.4	25.8	21.6	23.2	22.0	23.5	23.8
	3H	24.8	26.2	25.1	26.5	26.9	22.8	24.2	23.2	24.6	24.9
	4H	25.1	26.4	25.5	26.8	27.2	23.0	24.4	23.4	24.7	25.1
	6H	25.3	26.5	25.7	26.8	27.2	23.1	24.3	23.5	24.7	25.1
	8H	25.3	26.4	25.7	26.8	27.2	23.1	24.2	23.5	24.6	25.0
	12H	25.3	26.4	25.7	26.7	27.2	23.1	24.2	23.5	24.6	25.0
4H	2H	23.8	25.1	24.2	25.5	25.9	22.2	23.5	22.6	23.8	24.2
	3H	25.2	26.3	25.6	26.7	27.1	23.6	24.7	24.0	25.1	25.5
	4H	25.6	26.6	26.0	27.0	27.4	23.9	24.8	24.3	25.3	25.7
	6H	25.8	26.6	26.3	27.1	27.6	24.0	24.8	24.4	25.2	25.7
	8H	25.8	26.6	26.3	27.1	27.5	23.9	24.7	24.4	25.2	25.6
	12H	25.8	26.5	26.3	27.0	27.5	23.9	24.6	24.4	25.1	25.6
8H	4H	25.6	26.4	26.1	26.9	27.3	24.0	24.8	24.5	25.2	25.7
	6H	25.9	26.5	26.4	27.0	27.5	24.1	24.8	24.6	25.2	25.7
	8H	25.9	26.5	26.4	27.0	27.5	24.1	24.7	24.6	25.2	25.7
	12H	25.9	26.4	26.4	26.9	27.5	24.1	24.6	24.6	25.1	25.7
12H	4H	25.6	26.3	26.1	26.8	27.3	24.0	24.7	24.5	25.2	25.6
	6H	25.8	26.4	26.4	26.9	27.4	24.1	24.7	24.6	25.1	25.7
	8H	25.9	26.4	26.4	26.9	27.5	24.1	24.6	24.6	25.1	25.7

Maximum UGR = 27.6

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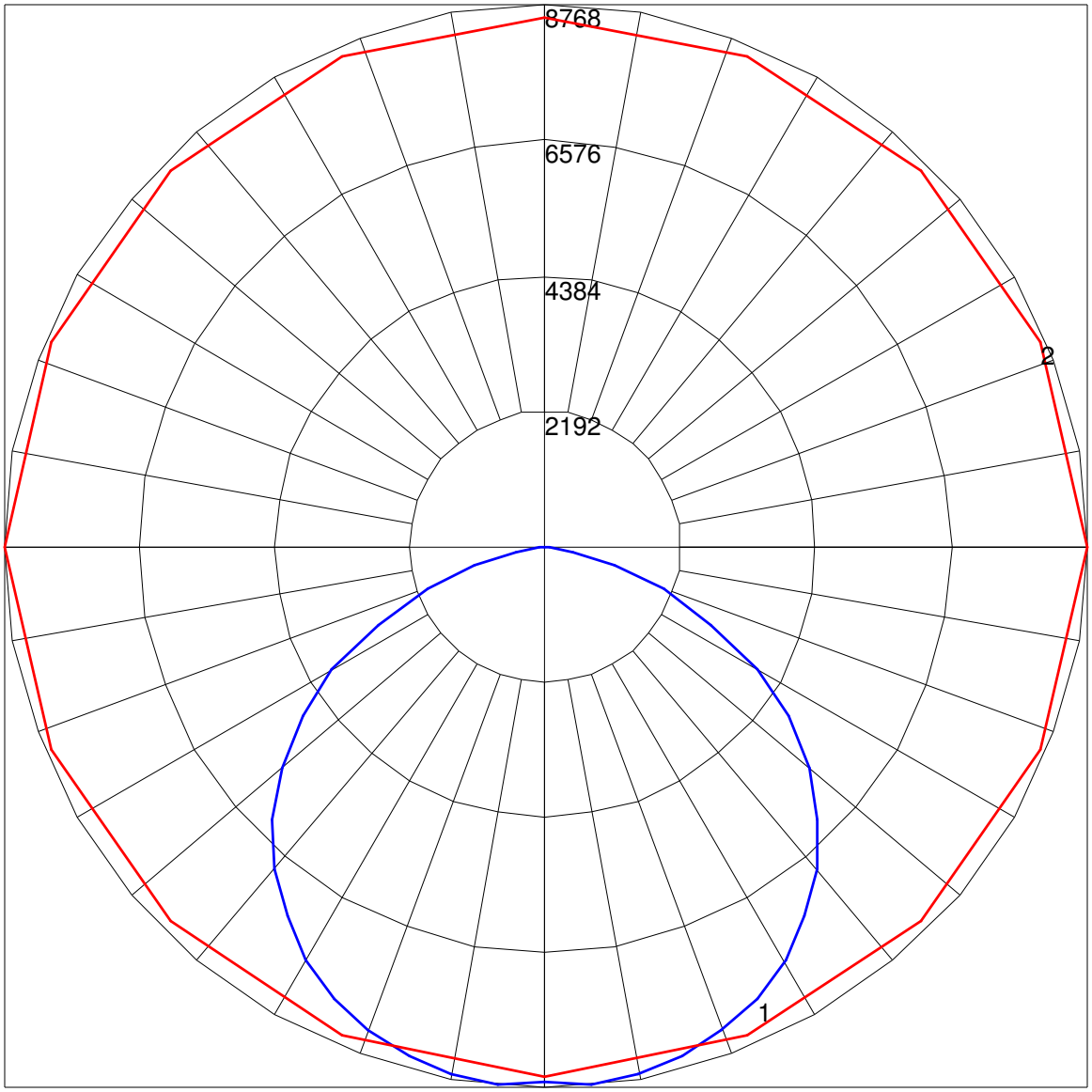
POLAR GRAPH



Maximum Candela = 8767.999 Located At Horizontal Angle = 0, Vertical Angle = 5
1 - Vertical Plane Through Horizontal Angles (0 - 180) (Through Max. Cd.)
2 - Horizontal Cone Through Vertical Angle (5) (Through Max. Cd.)

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