H.E. WILLIAMS, INC.

IES INDOOR REPORT
PHOTOMETRIC FILENAME : GL-8-L400-935-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] 2023-07-20
[MANUFAC] WILLIAMS INDOOR
[OTHER] H.E. WILLIAMS, INC - CARTHAGE, MO
[LUMINAIRE] 96 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-8-L400-935-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	29741
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	112
Total Luminaire Watts	266
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)	8.00 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	15284	14971	11427
55	14501	10631	10770
65	12158	9428	9219
75	7893	5312	3922
85	1573	1605	1343

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CANDELA TABULATION

	0.0	22.5	45.0	67.5	90.0
0	11145.174	11145.174	11145.174	11145.174	11145.174
5	11269.434	11140.926	11060.210	11018.790	11029.410
10	11170.663	11042.155	10974.183	10928.515	10943.384
15	10978.432	10886.033	10817.000	10741.594	10769.207
20	10736.284	10603.527	10548.301	10481.391	10522.811
25	10412.358	10242.430	10228.623	10197.823	10204.196
30	9972.668	9816.547	9825.043	9778.313	9805.926
35	9409.781	9224.984	9317.382	9295.079	9301.452
40	8779.984	8572.884	8616.428	8729.005	8712.013
45	8039.734	7846.440	7875.116	7278.242	6011.214
50	7153.982	7041.405	7056.274	5198.745	5248.661
55	6187.515	6126.978	4536.024	4598.685	4595.499
60	5112.718	5060.678	3791.526	3864.807	3864.807
65	3822.325	3883.924	2964.187	3066.144	2898.340
70	2606.276	2064.629	2114.546	1945.679	1537.851
75	1519.796	1193.746	1022.756	937.792	755.119
80	604.308	525.716	384.463	314.367	292.064
85	101.957	91.336	104.081	105.143	87.088
90	0.000	0.000	0.000	0.000	0.000

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ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixt
0-20	4114.39	N.A.	13.80
0-30	8837.05	N.A.	29.70
0-40	14650.64	N.A.	49.30
0-60	25146.34	N.A.	84.60
0-80	29573.04	N.A.	99.40
0-90	29740.55	N.A.	100.00
10-90	28684.38	N.A.	96.40
20-40	10536.25	N.A.	35.40
20-50	16335.51	N.A.	54.90
40-70	13707.34	N.A.	46.10
60-80	4426.71	N.A.	14.90
70-80	1215.07	N.A.	4.10
80-90	167.51	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	29740.55	N.A.	100.00

Total Luminaire Efficiency = N.A.%

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	1056.17
10-20	3058.22
20-30	4722.66
30-40	5813.59
40-50	5799.26
50-60	4696.44
60-70	3211.64
70-80	1215.07
80-90	167.51
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	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	21.9	23.5	22.3	23.8	24.1	20.0	21.5	20.3	21.8	22.2
	3H	23.1	24.5	23.5	24.9	25.2	21.2	22.6	21.6	22.9	23.3
	4H	23.5	24.8	23.9	25.1	25.5	21.4	22.7	21.8	23.1	23.4
	6H	23.6	24.8	24.0	25.2	25.6	21.4	22.7	21.9	23.0	23.4
	8H	23.6	24.8	24.0	25.2	25.6	21.4	22.6	21.8	23.0	23.4
	12H	23.6	24.7	24.0	25.1	25.5	21.4	22.5	21.8	22.9	23.3
4H	2H	22.2	23.5	22.6	23.8	24.2	20.5	21.8	20.9	22.2	22.6
	3H	23.5	24.6	23.9	25.0	25.4	21.9	23.0	22.3	23.4	23.8
	4H	23.9	24.9	24.4	25.3	25.8	22.2	23.2	22.6	23.6	24.0
	6H	24.1	25.0	24.6	25.4	25.9	22.3	23.1	22.8	23.6	24.0
	8H	24.2	25.0	24.6	25.4	25.9	22.3	23.1	22.8	23.5	24.0
	12H	24.2	24.9	24.6	25.3	25.8	22.3	23.0	22.8	23.5	23.9
8H	4H	24.0	24.8	24.4	25.2	25.7	22.3	23.1	22.8	23.6	24.0
	6H	24.2	24.9	24.7	25.4	25.8	22.4	23.1	22.9	23.6	24.1
	8H	24.3	24.8	24.8	25.3	25.8	22.5	23.0	23.0	23.5	24.0
	12H	24.3	24.8	24.8	25.3	25.8	22.5	23.0	23.0	23.5	24.0
12H	4H	24.0	24.7	24.4	25.1	25.6	22.3	23.0	22.8	23.5	24.0
	6H	24.2	24.8	24.7	25.2	25.8	22.4	23.0	23.0	23.5	24.0
	8H	24.2	24.8	24.7	25.2	25.8	22.5	23.0	23.0	23.5	24.0

Maximum UGR = 25.9

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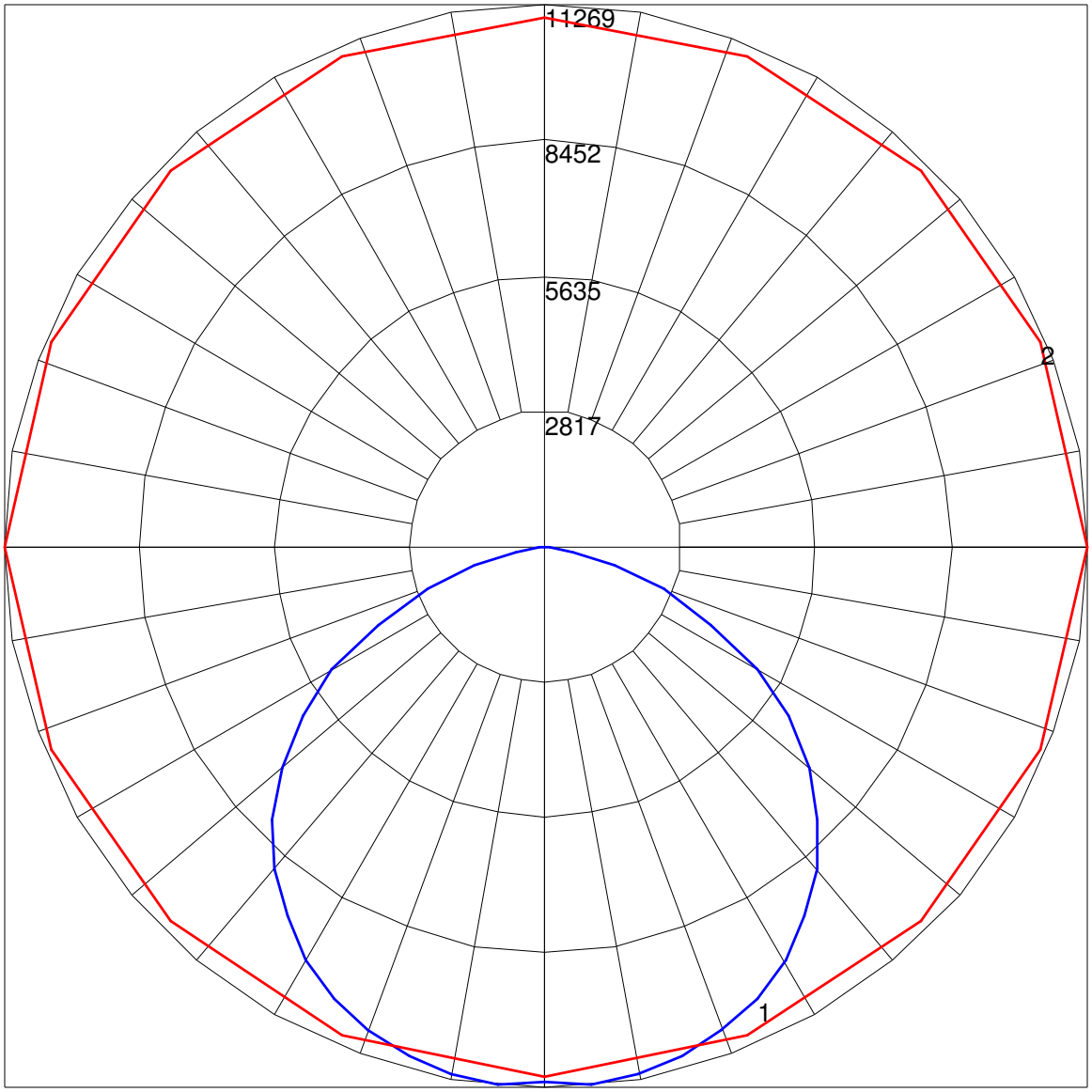
POLAR GRAPH



Maximum Candela = 11269.434 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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