H.E. WILLIAMS, INC.

IES INDOOR REPORT
PHOTOMETRIC FILENAME : GL-8-L400-940-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] 2023-07-20
[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-L400-940-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	30856
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	116
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	15857	15532	11856
55	15045	11029	11174
65	12614	9782	9565
75	8189	5511	4069
85	1631	1665	1394

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CANDELA TABULATION

	0.0	22.5	45.0	67.5	90.0
0	11563.118	11563.118	11563.118	11563.118	11563.118
5	11692.038	11558.711	11474.968	11431.995	11443.013
10	11589.563	11456.236	11385.716	11338.335	11353.761
15	11390.123	11294.260	11222.638	11144.404	11173.053
20	11138.895	11001.160	10943.862	10874.444	10917.417
25	10802.822	10626.521	10612.197	10580.242	10586.853
30	10346.644	10184.668	10193.483	10145.000	10173.649
35	9762.648	9570.921	9666.784	9643.645	9650.256
40	9109.234	8894.367	8939.544	9056.344	9038.713
45	8341.224	8140.682	8170.433	7551.177	6236.635
50	7422.257	7305.458	7320.884	5393.698	5445.486
55	6419.547	6356.740	4706.125	4771.136	4767.830
60	5304.446	5250.453	3933.708	4009.738	4009.738
65	3965.663	4029.572	3075.344	3181.125	3007.028
70	2704.011	2142.053	2193.841	2018.642	1595.521
75	1576.789	1238.512	1061.109	972.959	783.436
80	626.969	545.430	398.880	326.156	303.017
85	105.780	94.762	107.984	109.086	90.354
90	0.000	0.000	0.000	0.000	0.000

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ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixt
0-20	4268.68	N.A.	13.80
0-30	9168.44	N.A.	29.70
0-40	15200.04	N.A.	49.30
0-60	26089.32	N.A.	84.60
0-80	30682.03	N.A.	99.40
0-90	30855.83	N.A.	100.00
10-90	29760.05	N.A.	96.40
20-40	10931.36	N.A.	35.40
20-50	16948.09	N.A.	54.90
40-70	14221.36	N.A.	46.10
60-80	4592.71	N.A.	14.90
70-80	1260.63	N.A.	4.10
80-90	173.79	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	30855.83	N.A.	100.00

Total Luminaire Efficiency = N.A.%

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	1095.78
10-20	3172.9
20-30	4899.76
30-40	6031.6
40-50	6016.73
50-60	4872.55
60-70	3332.08
70-80	1260.63
80-90	173.79
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	22.0	23.6	22.4	23.9	24.2	20.1	21.6	20.4	21.9	22.3
	3H	23.2	24.6	23.6	25.0	25.3	21.3	22.7	21.7	23.0	23.4
	4H	23.6	24.9	24.0	25.2	25.6	21.5	22.8	21.9	23.2	23.5
	6H	23.7	24.9	24.1	25.3	25.7	21.5	22.8	22.0	23.1	23.5
	8H	23.7	24.9	24.1	25.3	25.7	21.5	22.7	21.9	23.1	23.5
	12H	23.7	24.8	24.1	25.2	25.6	21.5	22.6	21.9	23.0	23.4
4H	2H	22.3	23.6	22.7	23.9	24.3	20.6	21.9	21.0	22.3	22.7
	3H	23.6	24.7	24.0	25.1	25.5	22.0	23.1	22.4	23.5	23.9
	4H	24.0	25.0	24.5	25.4	25.9	22.3	23.3	22.7	23.7	24.1
	6H	24.2	25.1	24.7	25.5	26.0	22.4	23.2	22.9	23.7	24.1
	8H	24.3	25.1	24.7	25.5	26.0	22.4	23.2	22.9	23.6	24.1
	12H	24.3	25.0	24.7	25.4	25.9	22.4	23.1	22.9	23.6	24.0
8H	4H	24.1	24.9	24.5	25.3	25.8	22.4	23.2	22.9	23.7	24.1
	6H	24.3	25.0	24.8	25.5	25.9	22.5	23.2	23.0	23.7	24.2
	8H	24.4	24.9	24.9	25.4	25.9	22.6	23.1	23.1	23.6	24.1
	12H	24.4	24.9	24.9	25.4	25.9	22.6	23.1	23.1	23.6	24.1
12H	4H	24.1	24.8	24.5	25.2	25.7	22.4	23.1	22.9	23.6	24.1
	6H	24.3	24.9	24.8	25.3	25.9	22.5	23.1	23.1	23.6	24.1
	8H	24.3	24.9	24.8	25.3	25.9	22.6	23.1	23.1	23.6	24.1

Maximum UGR = 26.0

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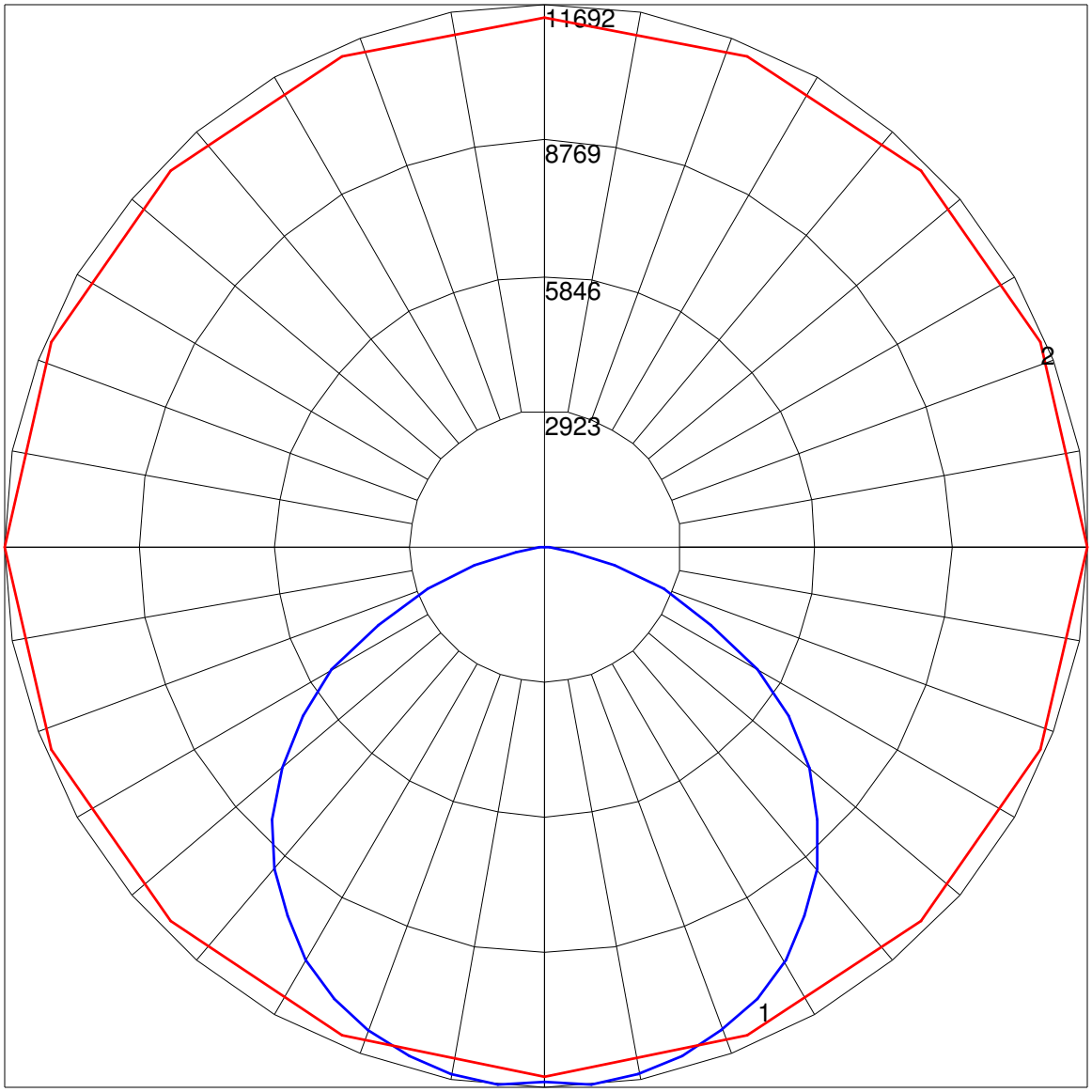
POLAR GRAPH



Maximum Candela = 11692.038 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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