H.E. WILLIAMS, INC.

IES INDOOR REPORT
PHOTOMETRIC FILENAME : GL-8-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] 2023-07-20
[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-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	23108
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	120
Total Luminaire Watts	192
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	11875	11632	8879
55	11267	8260	8368
65	9446	7326	7163
75	6133	4127	3047
85	1222	1247	1044

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CANDELA TABULATION

	0.0	22.5	45.0	67.5	90.0
0	8659.538	8659.538	8659.538	8659.538	8659.538
5	8756.085	8656.238	8593.523	8561.341	8569.593
10	8679.343	8579.495	8526.683	8491.200	8502.752
15	8529.984	8458.192	8404.555	8345.966	8367.421
20	8341.840	8238.692	8195.782	8143.795	8175.977
25	8090.158	7958.127	7947.400	7923.469	7928.420
30	7748.529	7627.226	7633.828	7597.519	7618.974
35	7311.179	7167.596	7239.387	7222.058	7227.009
40	6821.841	6660.929	6694.762	6782.232	6769.029
45	6246.684	6096.500	6118.780	5655.023	4670.572
50	5558.476	5471.006	5482.559	4039.302	4078.086
55	4807.554	4760.518	3524.384	3573.070	3570.595
60	3972.462	3932.028	2945.926	3002.864	3002.864
65	2969.857	3017.718	2303.104	2382.322	2251.942
70	2025.015	1604.168	1642.952	1511.747	1194.874
75	1180.846	927.513	794.657	728.642	586.710
80	469.533	408.469	298.719	244.256	226.927
85	79.218	70.966	80.869	81.694	67.666
90	0.000	0.000	0.000	0.000	0.000

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ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixt
0-20	3196.79	N.A.	13.80
0-30	6866.18	N.A.	29.70
0-40	11383.2	N.A.	49.30
0-60	19538.11	N.A.	84.60
0-80	22977.56	N.A.	99.40
0-90	23107.71	N.A.	100.00
10-90	22287.09	N.A.	96.40
20-40	8186.42	N.A.	35.40
20-50	12692.31	N.A.	54.90
40-70	10650.28	N.A.	46.10
60-80	3439.45	N.A.	14.90
70-80	944.08	N.A.	4.10
80-90	130.15	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	23107.71	N.A.	100.00

Total Luminaire Efficiency = N.A.%

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	820.62
10-20	2376.16
20-30	3669.4
30-40	4517.02
40-50	4505.89
50-60	3649.02
60-70	2495.37
70-80	944.08
80-90	130.15
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	21.0	22.6	21.4	22.9	23.2	19.1	20.6	19.4	20.9	21.3
	3H	22.2	23.6	22.6	24.0	24.3	20.3	21.7	20.7	22.0	22.4
	4H	22.6	23.9	23.0	24.2	24.6	20.5	21.8	20.9	22.2	22.5
	6H	22.7	23.9	23.1	24.3	24.7	20.5	21.8	21.0	22.1	22.5
	8H	22.7	23.9	23.1	24.3	24.7	20.5	21.7	20.9	22.1	22.5
	12H	22.7	23.8	23.1	24.2	24.6	20.5	21.6	20.9	22.0	22.4
4H	2H	21.3	22.6	21.7	22.9	23.3	19.6	20.9	20.0	21.3	21.7
	3H	22.6	23.7	23.0	24.1	24.5	21.0	22.1	21.4	22.5	22.9
	4H	23.0	24.0	23.5	24.4	24.9	21.3	22.3	21.7	22.7	23.1
	6H	23.2	24.1	23.7	24.5	25.0	21.4	22.2	21.9	22.7	23.1
	8H	23.3	24.1	23.7	24.5	25.0	21.4	22.2	21.9	22.6	23.1
	12H	23.3	24.0	23.7	24.4	24.9	21.4	22.1	21.9	22.6	23.0
8H	4H	23.1	23.9	23.5	24.3	24.8	21.4	22.2	21.9	22.7	23.1
	6H	23.3	24.0	23.8	24.5	24.9	21.5	22.2	22.0	22.7	23.2
	8H	23.4	23.9	23.9	24.4	24.9	21.6	22.1	22.1	22.6	23.1
	12H	23.4	23.9	23.9	24.4	24.9	21.6	22.1	22.1	22.6	23.1
12H	4H	23.1	23.8	23.5	24.2	24.7	21.4	22.1	21.9	22.6	23.1
	6H	23.3	23.9	23.8	24.3	24.9	21.5	22.1	22.1	22.6	23.1
	8H	23.3	23.9	23.8	24.3	24.9	21.6	22.1	22.1	22.6	23.1

Maximum UGR = 25.0

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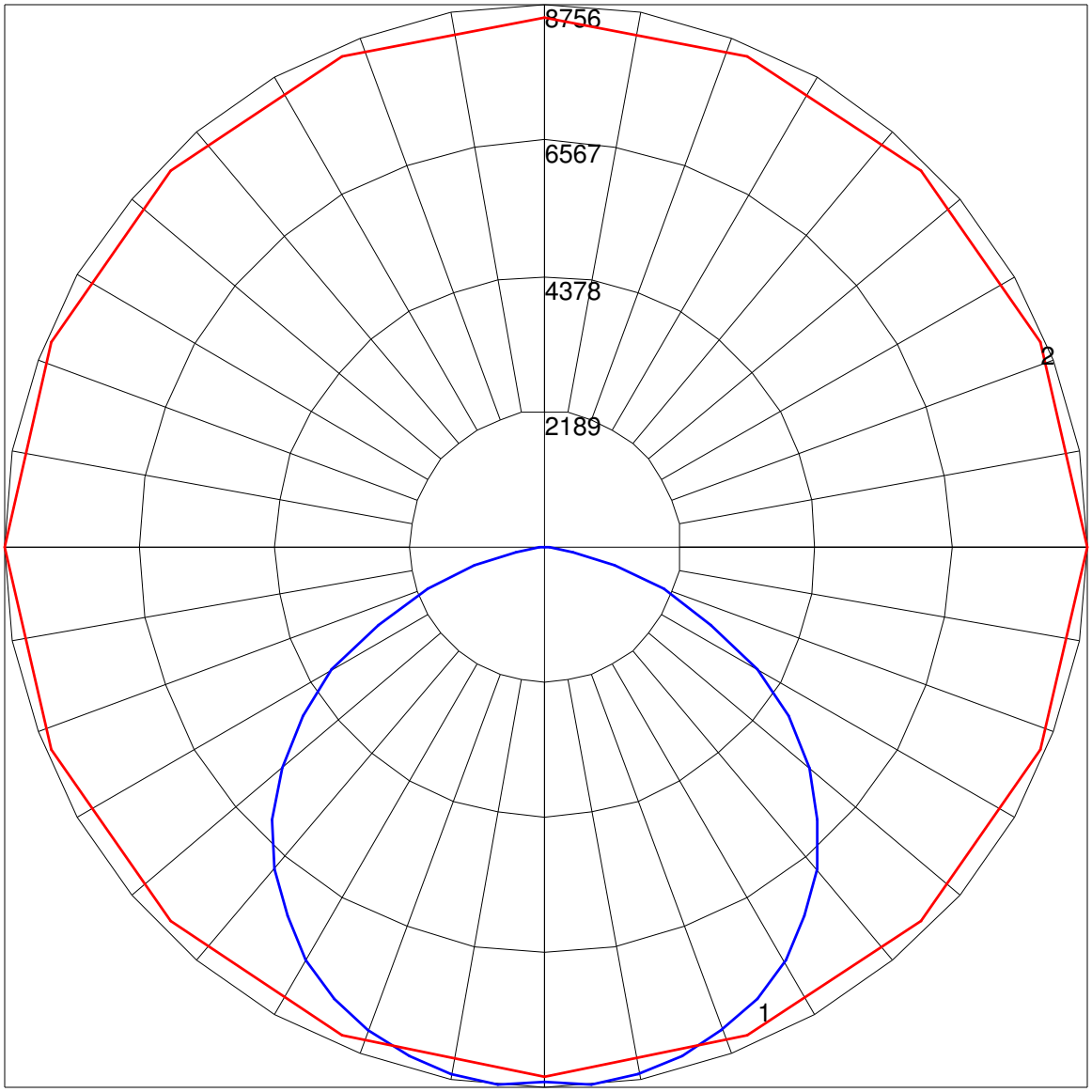
POLAR GRAPH



Maximum Candela = 8756.085 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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