H.E. WILLIAMS, INC.

IES INDOOR REPORT
PHOTOMETRIC FILENAME : GL-8-L300-950-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-L300-950-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	23943
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	125
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	12304	12052	9200
55	11674	8558	8670
65	9788	7590	7422
75	6355	4276	3157
85	1266	1292	1081

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CANDELA TABULATION

	0.0	22.5	45.0	67.5	90.0
0	8972.533	8972.533	8972.533	8972.533	8972.533
5	9072.570	8969.113	8904.132	8870.787	8879.337
10	8993.054	8889.597	8834.876	8798.110	8810.080
15	8838.296	8763.910	8708.334	8647.628	8669.858
20	8643.352	8536.476	8492.015	8438.149	8471.494
25	8382.573	8245.770	8234.655	8209.860	8214.990
30	8028.596	7902.909	7909.749	7872.128	7894.359
35	7575.438	7426.665	7501.052	7483.096	7488.226
40	7068.414	6901.686	6936.741	7027.373	7013.693
45	6472.468	6316.855	6339.940	5859.422	4839.388
50	5759.385	5668.753	5680.723	4185.301	4225.487
55	4981.321	4932.585	3651.772	3702.217	3699.652
60	4116.045	4074.149	3052.406	3111.402	3111.402
65	3077.201	3126.792	2386.348	2468.430	2333.338
70	2098.208	1662.150	1702.336	1566.389	1238.063
75	1223.527	961.038	823.380	754.979	607.916
80	486.504	423.233	309.516	253.085	235.129
85	82.081	73.531	83.792	84.647	70.111
90	0.000	0.000	0.000	0.000	0.000

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ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixt
0-20	3312.33	N.A.	13.80
0-30	7114.36	N.A.	29.70
0-40	11794.64	N.A.	49.30
0-60	20244.31	N.A.	84.60
0-80	23808.07	N.A.	99.40
0-90	23942.93	N.A.	100.00
10-90	23092.65	N.A.	96.40
20-40	8482.31	N.A.	35.40
20-50	13151.06	N.A.	54.90
40-70	11035.23	N.A.	46.10
60-80	3563.76	N.A.	14.90
70-80	978.20	N.A.	4.10
80-90	134.86	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	23942.93	N.A.	100.00

Total Luminaire Efficiency = N.A.%

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	850.28
10-20	2462.05
20-30	3802.02
30-40	4680.29
40-50	4668.75
50-60	3780.91
60-70	2585.56
70-80	978.20
80-90	134.86
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	21.1	22.7	21.5	23.0	23.3	19.2	20.7	19.5	21.0	21.4
	3H	22.3	23.7	22.7	24.1	24.4	20.4	21.8	20.8	22.1	22.5
	4H	22.7	24.0	23.1	24.3	24.7	20.6	21.9	21.0	22.3	22.6
	6H	22.8	24.0	23.2	24.4	24.8	20.6	21.9	21.1	22.2	22.6
	8H	22.8	24.0	23.2	24.4	24.8	20.6	21.8	21.0	22.2	22.6
	12H	22.8	23.9	23.2	24.3	24.7	20.6	21.7	21.0	22.1	22.5
4H	2H	21.4	22.7	21.8	23.0	23.4	19.7	21.0	20.1	21.4	21.8
	3H	22.7	23.8	23.1	24.2	24.6	21.1	22.2	21.5	22.6	23.0
	4H	23.1	24.1	23.6	24.5	25.0	21.4	22.4	21.8	22.8	23.2
	6H	23.3	24.2	23.8	24.6	25.1	21.5	22.3	22.0	22.8	23.2
	8H	23.4	24.2	23.8	24.6	25.1	21.5	22.3	22.0	22.7	23.2
	12H	23.4	24.1	23.8	24.5	25.0	21.5	22.2	22.0	22.7	23.1
8H	4H	23.2	24.0	23.6	24.4	24.9	21.5	22.3	22.0	22.8	23.2
	6H	23.4	24.1	23.9	24.6	25.0	21.6	22.3	22.1	22.8	23.3
	8H	23.5	24.0	24.0	24.5	25.0	21.7	22.2	22.2	22.7	23.2
	12H	23.5	24.0	24.0	24.5	25.0	21.7	22.2	22.2	22.7	23.2
12H	4H	23.2	23.9	23.6	24.3	24.8	21.5	22.2	22.0	22.7	23.2
	6H	23.4	24.0	23.9	24.4	25.0	21.6	22.2	22.2	22.7	23.2
	8H	23.4	24.0	23.9	24.4	25.0	21.7	22.2	22.2	22.7	23.2

Maximum UGR = 25.1

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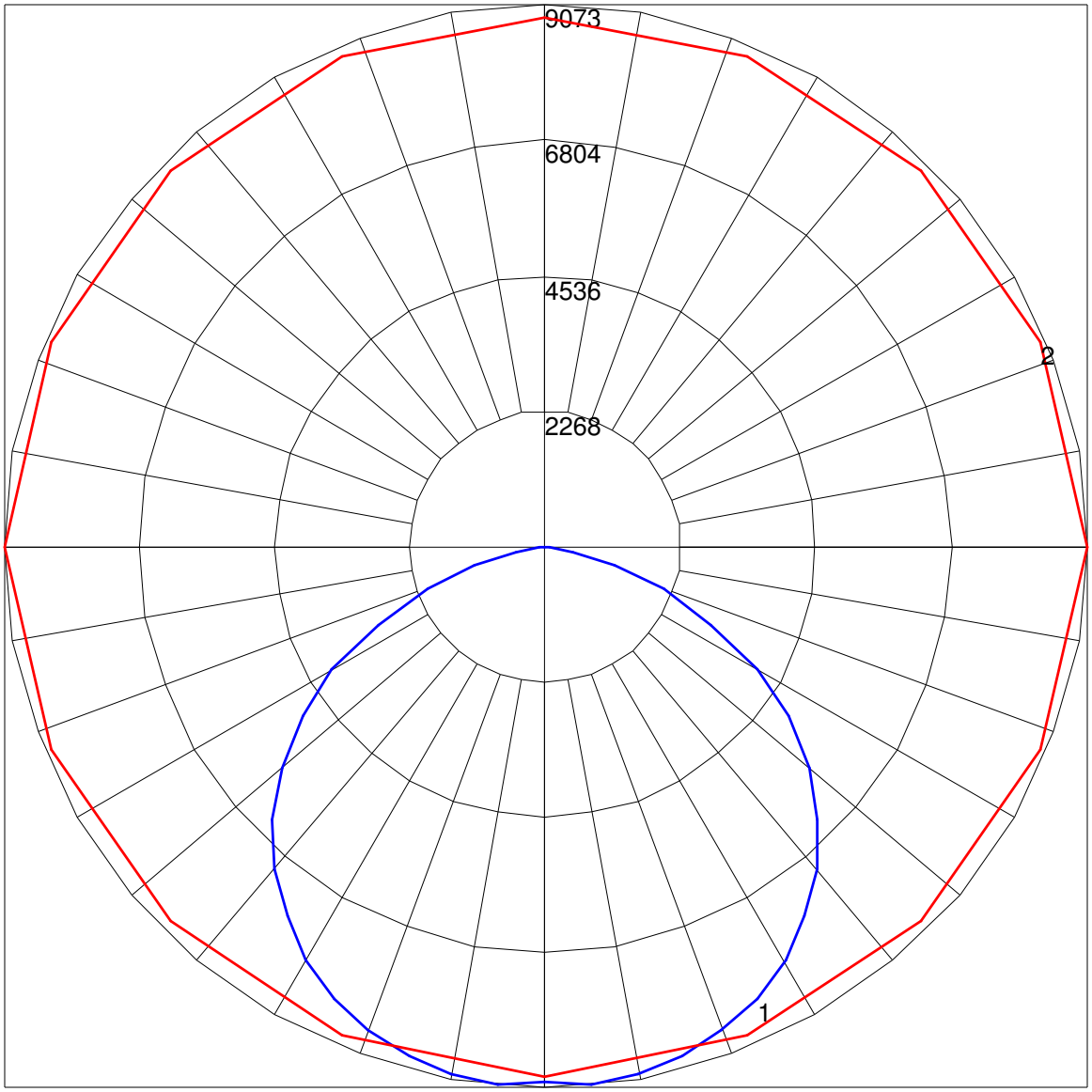
POLAR GRAPH



Maximum Candela = 9072.57 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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