H.E. WILLIAMS, INC.

IES INDOOR REPORT
PHOTOMETRIC FILENAME : GL-8-L400-930-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-L400-930-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	29369
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	110
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	15093	14784	11285
55	14320	10498	10635
65	12006	9310	9104
75	7795	5245	3873
85	1553	1585	1326

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CANDELA TABULATION

	0.0	22.5	45.0	67.5	90.0
0	11005.856	11005.856	11005.856	11005.856	11005.856
5	11128.562	11001.661	10921.954	10881.051	10891.539
10	11031.026	10904.124	10837.003	10791.905	10806.588
15	10841.198	10749.954	10681.784	10607.321	10634.589
20	10602.077	10470.980	10416.444	10350.371	10391.273
25	10282.200	10114.396	10100.762	10070.347	10076.640
30	9848.007	9693.837	9702.227	9656.081	9683.349
35	9292.156	9109.669	9200.912	9178.888	9185.180
40	8670.231	8465.720	8508.720	8619.890	8603.110
45	7939.235	7748.357	7776.674	7187.262	5936.072
50	7064.555	6953.385	6968.068	5133.759	5183.051
55	6110.169	6050.389	4479.322	4541.200	4538.054
60	5048.808	4997.418	3744.130	3816.496	3816.496
65	3774.545	3835.374	2927.134	3027.816	2862.110
70	2573.696	2038.821	2088.113	1921.358	1518.628
75	1500.798	1178.824	1009.971	926.069	745.680
80	596.754	519.144	379.657	310.438	288.413
85	100.682	90.195	102.780	103.829	86.000
90	0.000	0.000	0.000	0.000	0.000

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ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixt
0-20	4062.96	N.A.	13.80
0-30	8726.58	N.A.	29.70
0-40	14467.5	N.A.	49.30
0-60	24832.00	N.A.	84.60
0-80	29203.37	N.A.	99.40
0-90	29368.79	N.A.	100.00
10-90	28325.82	N.A.	96.40
20-40	10404.54	N.A.	35.40
20-50	16131.31	N.A.	54.90
40-70	13535.99	N.A.	46.10
60-80	4371.37	N.A.	14.90
70-80	1199.88	N.A.	4.10
80-90	165.42	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	29368.79	N.A.	100.00

Total Luminaire Efficiency = N.A.%

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	1042.97
10-20	3019.99
20-30	4663.62
30-40	5740.92
40-50	5726.77
50-60	4637.73
60-70	3171.49
70-80	1199.88
80-90	165.42
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	21.8	23.4	22.2	23.7	24.0	19.9	21.4	20.2	21.7	22.1
	3H	23.0	24.4	23.4	24.8	25.1	21.1	22.5	21.5	22.8	23.2
	4H	23.4	24.7	23.8	25.0	25.4	21.3	22.6	21.7	23.0	23.3
	6H	23.5	24.7	23.9	25.1	25.5	21.3	22.6	21.8	22.9	23.3
	8H	23.5	24.7	23.9	25.1	25.5	21.3	22.5	21.7	22.9	23.3
	12H	23.5	24.6	23.9	25.0	25.4	21.3	22.4	21.7	22.8	23.2
4H	2H	22.1	23.4	22.5	23.7	24.1	20.4	21.7	20.8	22.1	22.5
	3H	23.4	24.5	23.8	24.9	25.3	21.8	22.9	22.2	23.3	23.7
	4H	23.8	24.8	24.3	25.2	25.7	22.1	23.1	22.5	23.5	23.9
	6H	24.0	24.9	24.5	25.3	25.8	22.2	23.0	22.7	23.5	23.9
	8H	24.1	24.9	24.5	25.3	25.8	22.2	23.0	22.7	23.4	23.9
	12H	24.1	24.8	24.5	25.2	25.7	22.2	22.9	22.7	23.4	23.8
8H	4H	23.9	24.7	24.3	25.1	25.6	22.2	23.0	22.7	23.5	23.9
	6H	24.1	24.8	24.6	25.3	25.7	22.3	23.0	22.8	23.5	24.0
	8H	24.2	24.7	24.7	25.2	25.7	22.4	22.9	22.9	23.4	23.9
	12H	24.2	24.7	24.7	25.2	25.7	22.4	22.9	22.9	23.4	23.9
12H	4H	23.9	24.6	24.3	25.0	25.5	22.2	22.9	22.7	23.4	23.9
	6H	24.1	24.7	24.6	25.1	25.7	22.3	22.9	22.9	23.4	23.9
	8H	24.1	24.7	24.6	25.1	25.7	22.4	22.9	22.9	23.4	23.9

Maximum UGR = 25.8

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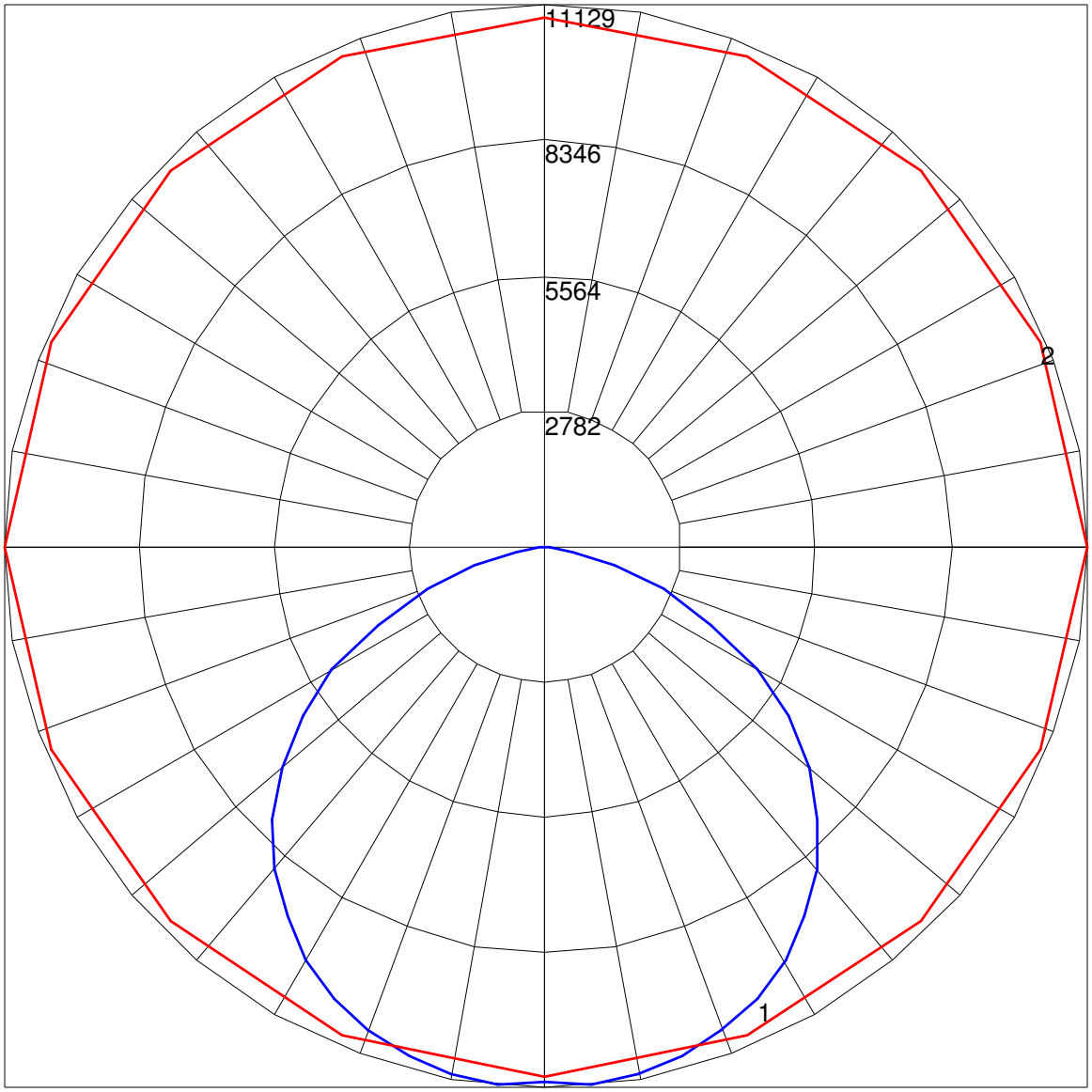
POLAR GRAPH



Maximum Candela = 11128.562 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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