H.E. WILLIAMS, INC.

IES INDOOR REPORT
PHOTOMETRIC FILENAME : GL-8-L400-950-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-L400-950-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	31971
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	120
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	16430	16094	12285
55	15589	11428	11578
65	13070	10135	9910
75	8485	5710	4216
85	1690	1726	1444

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CANDELA TABULATION

	0.0	22.5	45.0	67.5	90.0
0	11981.063	11981.063	11981.063	11981.063	11981.063
5	12114.642	11976.496	11889.726	11845.200	11856.617
10	12008.464	11870.317	11797.248	11748.155	11764.139
15	11801.815	11702.486	11628.276	11547.214	11576.899
20	11541.506	11398.793	11339.424	11267.496	11312.023
25	11193.286	11010.613	10995.770	10962.661	10969.511
30	10720.619	10552.788	10561.922	10511.687	10541.371
35	10115.515	9916.858	10016.187	9992.211	9999.061
40	9438.483	9215.851	9262.661	9383.682	9365.414
45	8642.714	8434.924	8465.750	7824.111	6462.056
50	7690.532	7569.511	7585.495	5588.651	5642.311
55	6651.579	6586.502	4876.226	4943.587	4940.162
60	5496.173	5440.229	4075.890	4154.668	4154.668
65	4109.000	4175.219	3186.501	3296.105	3115.716
70	2801.746	2219.476	2273.137	2091.605	1653.190
75	1633.781	1283.278	1099.463	1008.126	811.753
80	649.631	565.144	413.298	337.945	313.969
85	109.604	98.187	111.887	113.029	93.620
90	0.000	0.000	0.000	0.000	0.000

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ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixt
0-20	4422.97	N.A.	13.80
0-30	9499.83	N.A.	29.70
0-40	15749.44	N.A.	49.30
0-60	27032.31	N.A.	84.60
0-80	31791.02	N.A.	99.40
0-90	31971.1	N.A.	100.00
10-90	30835.71	N.A.	96.40
20-40	11326.47	N.A.	35.40
20-50	17560.67	N.A.	54.90
40-70	14735.39	N.A.	46.10
60-80	4758.71	N.A.	14.90
70-80	1306.2	N.A.	4.10
80-90	180.08	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	31971.1	N.A.	100.00

Total Luminaire Efficiency = N.A.%

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	1135.39
10-20	3287.59
20-30	5076.86
30-40	6249.61
40-50	6234.21
50-60	5048.67
60-70	3452.51
70-80	1306.2
80-90	180.08
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	22.1	23.7	22.5	24.0	24.3	20.2	21.7	20.5	22.0	22.4
	3H	23.3	24.7	23.7	25.1	25.4	21.4	22.8	21.8	23.1	23.5
	4H	23.7	25.0	24.1	25.3	25.7	21.6	22.9	22.0	23.3	23.6
	6H	23.8	25.0	24.2	25.4	25.8	21.6	22.9	22.1	23.2	23.6
	8H	23.8	25.0	24.2	25.4	25.8	21.6	22.8	22.0	23.2	23.6
	12H	23.8	24.9	24.2	25.3	25.7	21.6	22.7	22.0	23.1	23.5
4H	2H	22.4	23.7	22.8	24.0	24.4	20.7	22.0	21.1	22.4	22.8
	3H	23.7	24.8	24.1	25.2	25.6	22.1	23.2	22.5	23.6	24.0
	4H	24.1	25.1	24.6	25.5	26.0	22.4	23.4	22.8	23.8	24.2
	6H	24.3	25.2	24.8	25.6	26.1	22.5	23.3	23.0	23.8	24.2
	8H	24.4	25.2	24.8	25.6	26.1	22.5	23.3	23.0	23.7	24.2
	12H	24.4	25.1	24.8	25.5	26.0	22.5	23.2	23.0	23.7	24.1
8H	4H	24.2	25.0	24.6	25.4	25.9	22.5	23.3	23.0	23.8	24.2
	6H	24.4	25.1	24.9	25.6	26.0	22.6	23.3	23.1	23.8	24.3
	8H	24.5	25.0	25.0	25.5	26.0	22.7	23.2	23.2	23.7	24.2
	12H	24.5	25.0	25.0	25.5	26.0	22.7	23.2	23.2	23.7	24.2
12H	4H	24.2	24.9	24.6	25.3	25.8	22.5	23.2	23.0	23.7	24.2
	6H	24.4	25.0	24.9	25.4	26.0	22.6	23.2	23.2	23.7	24.2
	8H	24.4	25.0	24.9	25.4	26.0	22.7	23.2	23.2	23.7	24.2

Maximum UGR = 26.1

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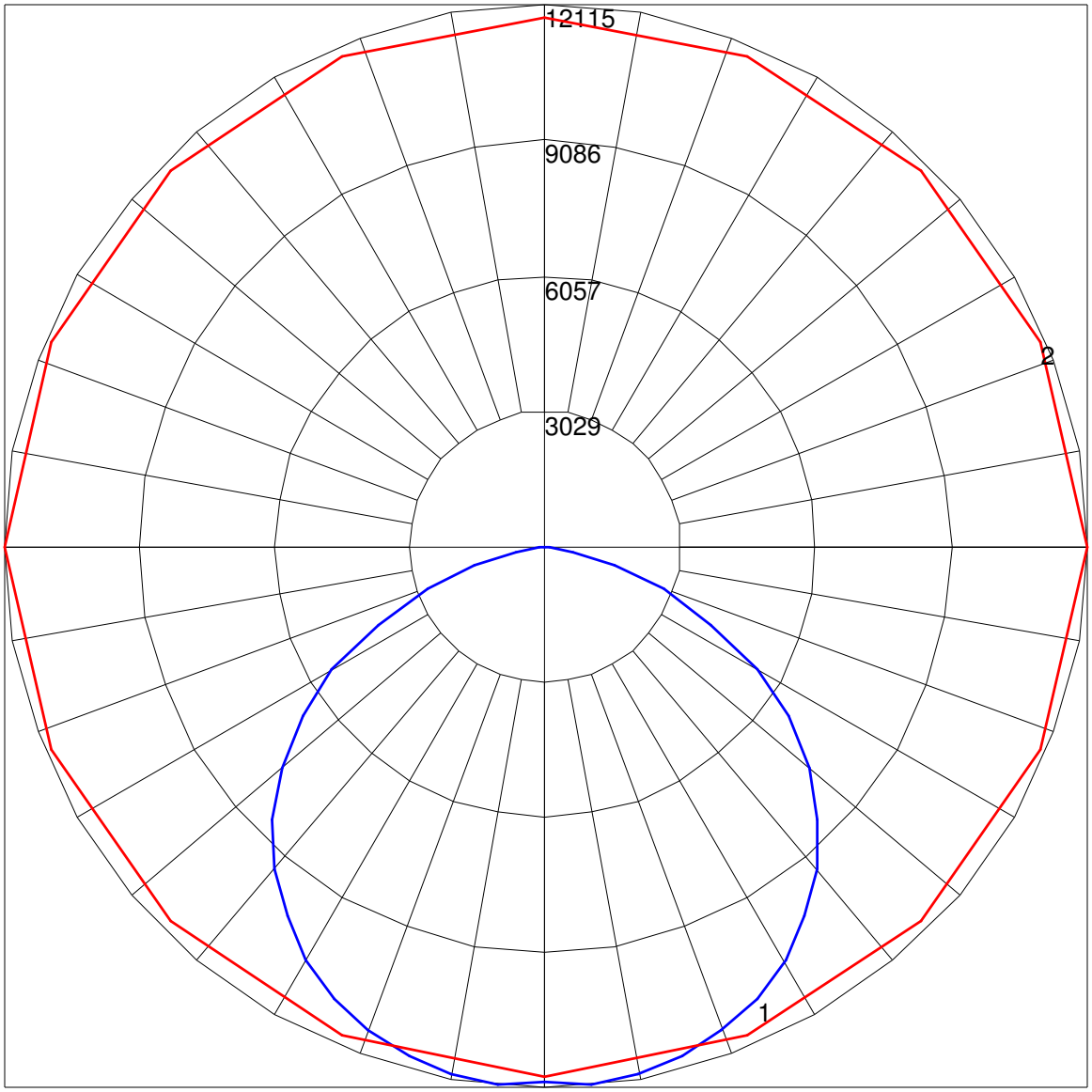
POLAR GRAPH



Maximum Candela = 12114.642 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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