H.E. WILLIAMS, INC.

IES INDOOR REPORT
PHOTOMETRIC FILENAME : GL-8-L400-830-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-L400-830-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	35689
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	134
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	18340	17965	13713
55	17401	12757	12924
65	14589	11314	11063
75	9472	6374	4706
85	1887	1926	1612

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CANDELA TABULATION

	0.0	22.5	45.0	67.5	90.0
0	13374.194	13374.194	13374.194	13374.194	13374.194
5	13523.306	13369.096	13272.237	13222.533	13235.278
10	13404.781	13250.571	13169.006	13114.204	13132.046
15	13174.104	13063.226	12980.386	12889.899	12923.035
20	12883.527	12724.219	12657.947	12577.656	12627.360
25	12494.816	12290.902	12274.334	12237.375	12245.022
30	11967.189	11779.843	11790.039	11733.963	11767.099
35	11291.725	11069.969	11180.847	11154.083	11161.730
40	10535.969	10287.449	10339.702	10474.795	10454.404
45	9647.670	9415.718	9450.129	8733.881	7213.449
50	8584.770	8449.677	8467.519	6238.487	6298.386
55	7425.010	7352.366	5443.223	5518.416	5514.593
60	6135.255	6072.807	4549.826	4637.764	4637.764
65	4586.785	4660.704	3557.021	3679.369	3478.004
70	3127.527	2477.552	2537.452	2334.813	1845.420
75	1823.754	1432.494	1227.306	1125.349	906.142
80	725.168	630.858	461.355	377.240	350.477
85	122.348	109.604	124.897	126.172	104.506
90	0.000	0.000	0.000	0.000	0.000

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ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixt
0-20	4937.26	N.A.	13.80
0-30	10604.45	N.A.	29.70
0-40	17580.75	N.A.	49.30
0-60	30175.57	N.A.	84.60
0-80	35487.61	N.A.	99.40
0-90	35688.63	N.A.	100.00
10-90	34421.22	N.A.	96.40
20-40	12643.48	N.A.	35.40
20-50	19602.59	N.A.	54.90
40-70	16448.79	N.A.	46.10
60-80	5312.04	N.A.	14.90
70-80	1458.08	N.A.	4.10
80-90	201.02	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	35688.63	N.A.	100.00

Total Luminaire Efficiency = N.A.%

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	1267.41
10-20	3669.86
20-30	5667.19
30-40	6976.3
40-50	6959.1
50-60	5635.72
60-70	3853.96
70-80	1458.08
80-90	201.02
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	22.5	24.1	22.9	24.4	24.7	20.6	22.1	20.9	22.4	22.8
	3H	23.7	25.1	24.1	25.5	25.8	21.8	23.2	22.2	23.5	23.9
	4H	24.1	25.4	24.5	25.7	26.1	22.0	23.3	22.4	23.7	24.0
	6H	24.2	25.4	24.6	25.8	26.2	22.0	23.3	22.5	23.6	24.0
	8H	24.2	25.4	24.6	25.8	26.2	22.0	23.2	22.4	23.6	24.0
	12H	24.2	25.3	24.6	25.7	26.1	22.0	23.1	22.4	23.5	23.9
4H	2H	22.8	24.1	23.2	24.4	24.8	21.1	22.4	21.5	22.8	23.2
	3H	24.1	25.2	24.5	25.6	26.0	22.5	23.6	22.9	24.0	24.4
	4H	24.5	25.5	25.0	25.9	26.4	22.8	23.8	23.2	24.2	24.6
	6H	24.7	25.6	25.2	26.0	26.5	22.9	23.7	23.4	24.2	24.6
	8H	24.8	25.6	25.2	26.0	26.5	22.9	23.7	23.4	24.1	24.6
	12H	24.8	25.5	25.2	25.9	26.4	22.9	23.6	23.4	24.1	24.5
8H	4H	24.6	25.4	25.0	25.8	26.3	22.9	23.7	23.4	24.2	24.6
	6H	24.8	25.5	25.3	26.0	26.4	23.0	23.7	23.5	24.2	24.7
	8H	24.9	25.4	25.4	25.9	26.4	23.1	23.6	23.6	24.1	24.6
	12H	24.9	25.4	25.4	25.9	26.4	23.1	23.6	23.6	24.1	24.6
12H	4H	24.6	25.3	25.0	25.7	26.2	22.9	23.6	23.4	24.1	24.6
	6H	24.8	25.4	25.3	25.8	26.4	23.0	23.6	23.6	24.1	24.6
	8H	24.8	25.4	25.3	25.8	26.4	23.1	23.6	23.6	24.1	24.6

Maximum UGR = 26.5

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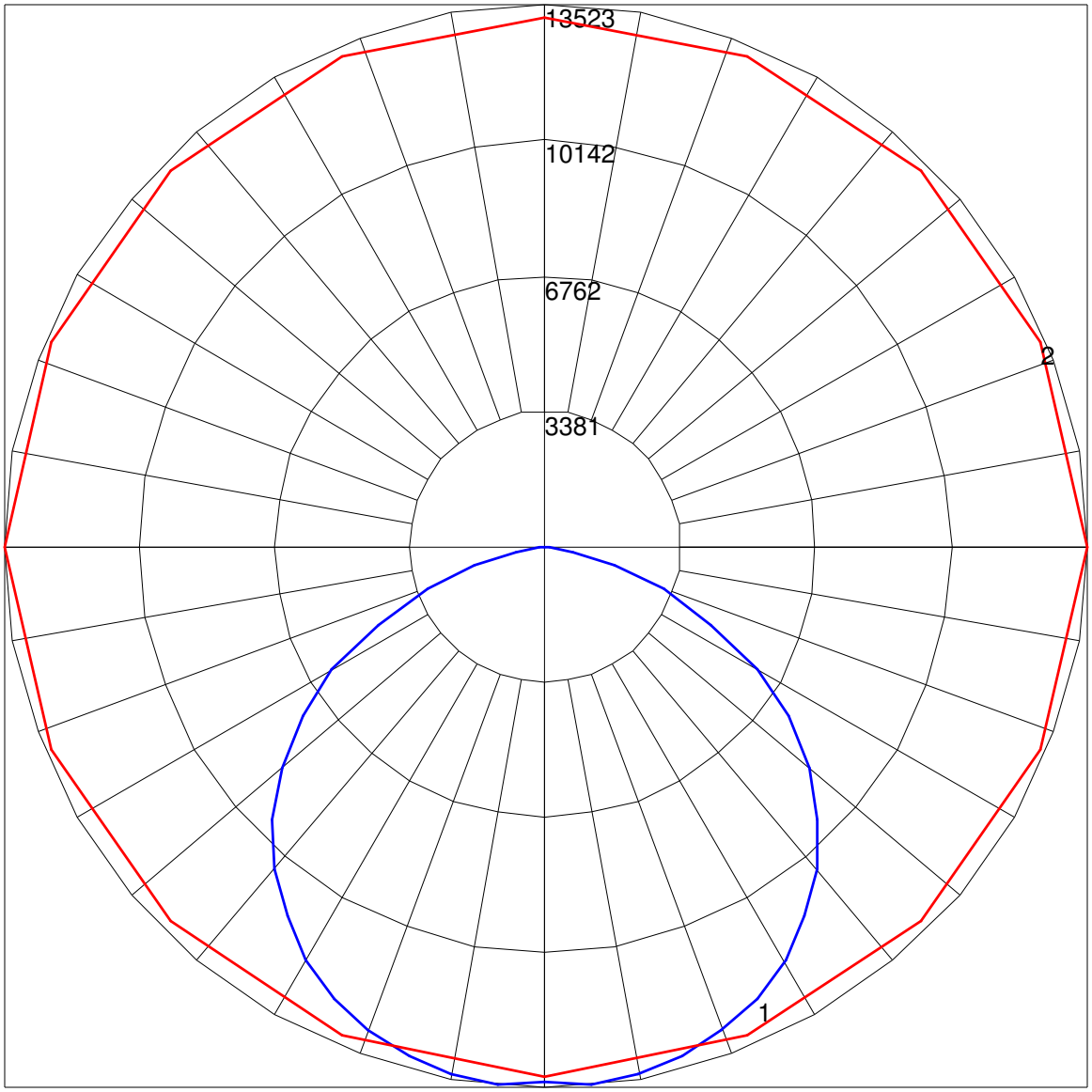
POLAR GRAPH



Maximum Candela = 13523.306 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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