H.E. WILLIAMS, INC.

IES INDOOR REPORT
PHOTOMETRIC FILENAME : GL-8-L300-930-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-L300-930-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	21994
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	115
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	11303	11071	8451
55	10724	7862	7965
65	8991	6972	6818
75	5837	3928	2900
85	1163	1187	993

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CANDELA TABULATION

	0.0	22.5	45.0	67.5	90.0
0	8242.211	8242.211	8242.211	8242.211	8242.211
5	8334.106	8239.070	8179.378	8148.746	8156.600
10	8261.061	8166.025	8115.758	8081.985	8092.981
15	8118.900	8050.568	7999.516	7943.751	7964.172
20	7939.824	7841.646	7800.804	7751.323	7781.954
25	7700.271	7574.603	7564.393	7541.615	7546.328
30	7375.106	7259.649	7265.933	7231.374	7251.795
35	6958.833	6822.170	6890.501	6874.007	6878.720
40	6493.078	6339.921	6372.123	6455.378	6442.811
45	5945.639	5802.693	5823.899	5382.492	4445.485
50	5290.598	5207.343	5218.339	3844.637	3881.552
55	4575.865	4531.096	3354.534	3400.874	3398.518
60	3781.018	3742.533	2803.954	2858.148	2858.148
65	2826.731	2872.286	2192.111	2267.511	2143.415
70	1927.424	1526.859	1563.774	1438.892	1137.290
75	1123.938	882.814	756.361	693.527	558.435
80	446.905	388.784	284.323	232.485	215.991
85	75.400	67.546	76.971	77.757	64.405
90	0.000	0.000	0.000	0.000	0.000

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ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixt
0-20	3042.72	N.A.	13.80
0-30	6535.28	N.A.	29.70
0-40	10834.61	N.A.	49.30
0-60	18596.52	N.A.	84.60
0-80	21870.21	N.A.	99.40
0-90	21994.09	N.A.	100.00
10-90	21213.02	N.A.	96.40
20-40	7791.89	N.A.	35.40
20-50	12080.63	N.A.	54.90
40-70	10137.01	N.A.	46.10
60-80	3273.69	N.A.	14.90
70-80	898.58	N.A.	4.10
80-90	123.88	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	21994.09	N.A.	100.00

Total Luminaire Efficiency = N.A.%

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	781.07
10-20	2261.65
20-30	3492.56
30-40	4299.33
40-50	4288.74
50-60	3473.16
60-70	2375.11
70-80	898.58
80-90	123.88
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	20.8	22.4	21.2	22.7	23.0	18.9	20.4	19.2	20.7	21.1
	3H	22.0	23.4	22.4	23.8	24.1	20.1	21.5	20.5	21.8	22.2
	4H	22.4	23.7	22.8	24.0	24.4	20.3	21.6	20.7	22.0	22.3
	6H	22.5	23.7	22.9	24.1	24.5	20.3	21.6	20.8	21.9	22.3
	8H	22.5	23.7	22.9	24.1	24.5	20.3	21.5	20.7	21.9	22.3
	12H	22.5	23.6	22.9	24.0	24.4	20.3	21.4	20.7	21.8	22.2
4H	2H	21.1	22.4	21.5	22.7	23.1	19.4	20.7	19.8	21.1	21.5
	3H	22.4	23.5	22.8	23.9	24.3	20.8	21.9	21.2	22.3	22.7
	4H	22.8	23.8	23.3	24.2	24.7	21.1	22.1	21.5	22.5	22.9
	6H	23.0	23.9	23.5	24.3	24.8	21.2	22.0	21.7	22.5	22.9
	8H	23.1	23.9	23.5	24.3	24.8	21.2	22.0	21.7	22.4	22.9
	12H	23.1	23.8	23.5	24.2	24.7	21.2	21.9	21.7	22.4	22.8
8H	4H	22.9	23.7	23.3	24.1	24.6	21.2	22.0	21.7	22.5	22.9
	6H	23.1	23.8	23.6	24.3	24.7	21.3	22.0	21.8	22.5	23.0
	8H	23.2	23.7	23.7	24.2	24.7	21.4	21.9	21.9	22.4	22.9
	12H	23.2	23.7	23.7	24.2	24.7	21.4	21.9	21.9	22.4	22.9
12H	4H	22.9	23.6	23.3	24.0	24.5	21.2	21.9	21.7	22.4	22.9
	6H	23.1	23.7	23.6	24.1	24.7	21.3	21.9	21.9	22.4	22.9
	8H	23.1	23.7	23.6	24.1	24.7	21.4	21.9	21.9	22.4	22.9

Maximum UGR = 24.8

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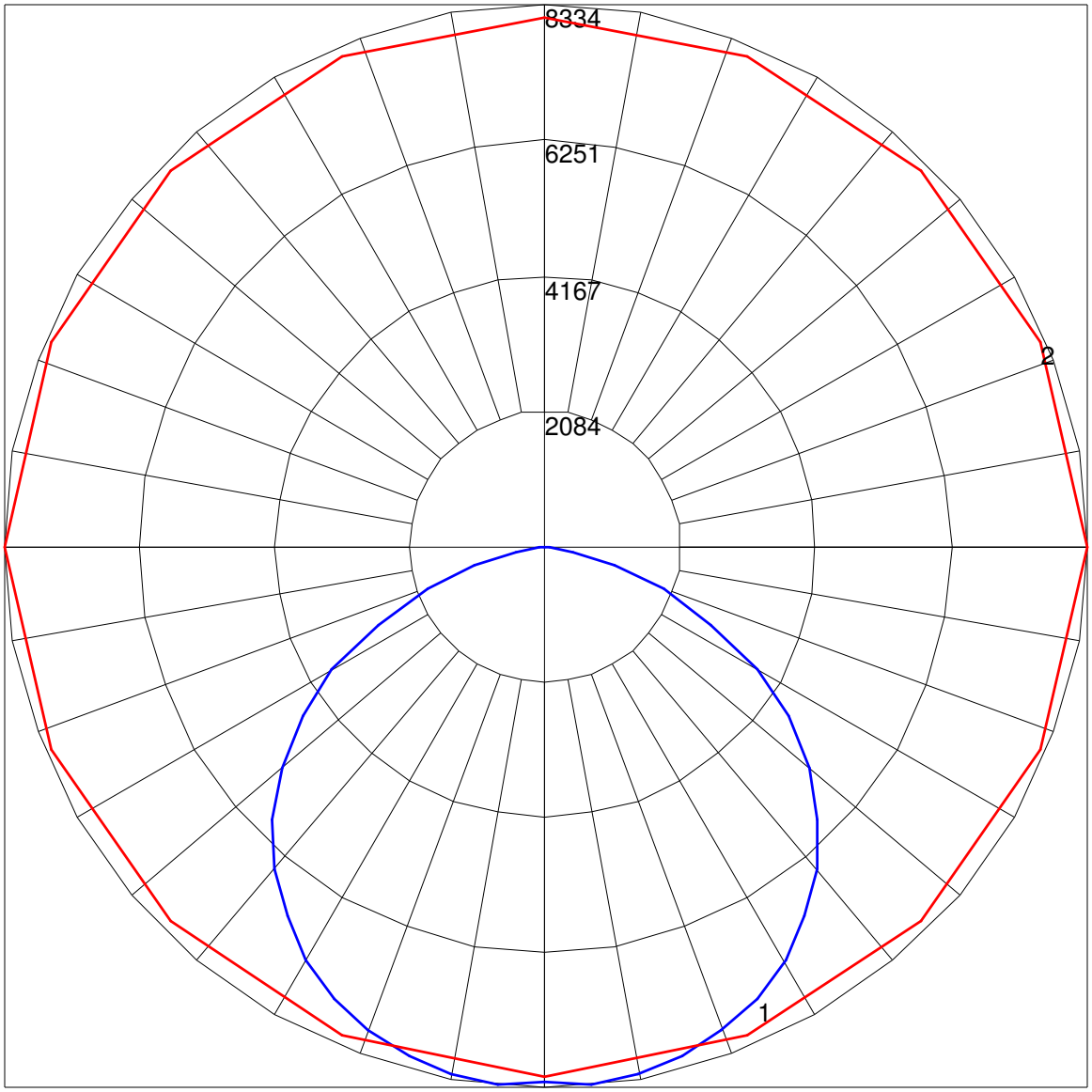
POLAR GRAPH



Maximum Candela = 8334.106 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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