H.E. WILLIAMS, INC.

IES INDOOR REPORT
PHOTOMETRIC FILENAME : GL-8-L600-840-SAF118-DIM-UNV_.IES

DESCRIPTION INFORMATION (From Photometric File)

IESNA:LM-63-2002
[TEST] GEN FROM BALLABS TEST NO. 19726.0
[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 FROSTED ACRYLIC LENS
[MORE] 0-10V LED DRIVERS
[LUMCAT] GL-8-L600-840-SAF118-DIM-UNV
[LAMPCAT] 22 INCH HLM 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	54430
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	136
Total Luminaire Watts	400
Ballast Factor	1.00
CIE Type	Direct
Spacing Criterion (0-180)	1.32
Spacing Criterion (90-270)	1.26
Spacing Criterion (Diagonal)	1.38
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	27708	26401	22984
55	25051	21418	19807
65	19725	16379	15700
75	13600	11137	11106
85	4856	4457	4825

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CANDELA TABULATION

	0.0	22.5	45.0	67.5	90.0
0	21017.946	21017.946	21017.946	21017.946	21017.946
5	21338.785	21031.895	20894.393	20784.790	20752.905
10	21157.441	20808.703	20719.028	20593.482	20565.583
15	20816.674	20473.914	20402.174	20240.758	20220.830
20	20250.722	20005.609	19899.991	19656.871	19702.705
25	19521.361	19344.003	19196.537	18913.561	18981.316
30	18624.606	18473.154	18361.558	18004.849	17957.022
35	17516.616	17291.430	17263.531	16789.248	16440.509
40	16173.476	15950.283	15798.831	15061.499	14330.146
45	14575.259	14403.879	13887.747	12843.525	12090.251
50	12739.900	12578.484	11586.075	10653.450	10234.964
55	10689.320	10466.128	9138.930	8676.603	8451.418
60	8429.498	8224.240	6992.697	6586.168	6643.959
65	6201.559	5976.374	5149.367	4874.362	4936.138
70	4290.475	3879.960	3583.035	3375.785	3417.633
75	2618.525	2273.772	2144.241	2030.652	2138.263
80	1245.493	1074.113	1012.337	990.416	1052.193
85	314.861	292.940	288.954	300.911	312.868
90	0.000	0.000	0.000	0.000	0.000

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ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixt
0-20	7754.81	N.A.	14.20
0-30	16592.07	N.A.	30.50
0-40	27238.01	N.A.	50.00
0-60	46180.29	N.A.	84.80
0-80	53979.79	N.A.	99.20
0-90	54430.05	N.A.	100.00
10-90	52437.27	N.A.	96.30
20-40	19483.2	N.A.	35.80
20-50	29968.01	N.A.	55.10
40-70	24331.71	N.A.	44.70
60-80	7799.51	N.A.	14.30
70-80	2410.07	N.A.	4.40
80-90	450.26	N.A.	0.80
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	54430.05	N.A.	100.00

Total Luminaire Efficiency = N.A.%

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	1992.79
10-20	5762.03
20-30	8837.26
30-40	10645.94
40-50	10484.82
50-60	8457.46
60-70	5389.44
70-80	2410.07
80-90	450.26
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	79	84	80	77	81	78	75	73
3	92	82	75	68	90	81	74	68	78	72	67	75	70	66	73	68	64	62
4	85	73	65	59	82	72	64	58	69	63	57	67	61	57	65	60	56	54
5	78	66	57	51	76	65	57	50	63	55	50	61	54	49	59	53	49	47
6	72	59	51	45	70	58	50	44	57	49	44	55	48	44	53	48	43	41
7	67	54	45	39	65	53	45	39	52	44	39	50	44	39	49	43	38	37
8	62	49	41	35	61	49	41	35	47	40	35	46	40	35	45	39	35	33
9	58	45	37	32	57	45	37	32	44	36	32	42	36	31	41	36	31	29
10	55	42	34	29	53	41	34	29	40	33	29	39	33	29	38	33	28	27

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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	23.4	24.9	23.7	25.3	25.6	21.9	23.5	22.3	23.8	24.1
	3H	24.6	26.0	25.0	26.3	26.7	23.2	24.6	23.6	24.9	25.3
	4H	25.0	26.3	25.4	26.7	27.0	23.6	24.9	24.0	25.2	25.6
	6H	25.2	26.4	25.6	26.8	27.2	23.8	25.0	24.2	25.4	25.8
	8H	25.2	26.4	25.7	26.8	27.2	23.9	25.0	24.3	25.4	25.8
	12H	25.2	26.3	25.6	26.7	27.1	23.9	25.0	24.3	25.3	25.8
4H	2H	23.7	25.0	24.1	25.3	25.7	22.4	23.8	22.8	24.1	24.5
	3H	25.1	26.2	25.5	26.6	27.0	23.9	25.0	24.3	25.4	25.8
	4H	25.6	26.5	26.0	26.9	27.4	24.4	25.3	24.8	25.8	26.2
	6H	25.8	26.7	26.3	27.1	27.6	24.7	25.5	25.1	26.0	26.4
	8H	25.9	26.7	26.4	27.1	27.6	24.7	25.5	25.2	26.0	26.4
	12H	25.9	26.6	26.4	27.1	27.6	24.8	25.5	25.2	25.9	26.4
8H	4H	25.6	26.4	26.1	26.9	27.4	24.6	25.3	25.0	25.8	26.3
	6H	26.0	26.6	26.5	27.1	27.6	24.9	25.6	25.4	26.0	26.5
	8H	26.0	26.6	26.6	27.1	27.6	25.0	25.6	25.5	26.1	26.6
	12H	26.1	26.6	26.6	27.1	27.7	25.1	25.6	25.6	26.1	26.6
12H	4H	25.6	26.3	26.1	26.8	27.3	24.6	25.3	25.0	25.7	26.2
	6H	26.0	26.6	26.5	27.0	27.6	24.9	25.5	25.4	26.0	26.5
	8H	26.1	26.6	26.6	27.1	27.6	25.0	25.5	25.5	26.0	26.6

Maximum UGR = 27.7

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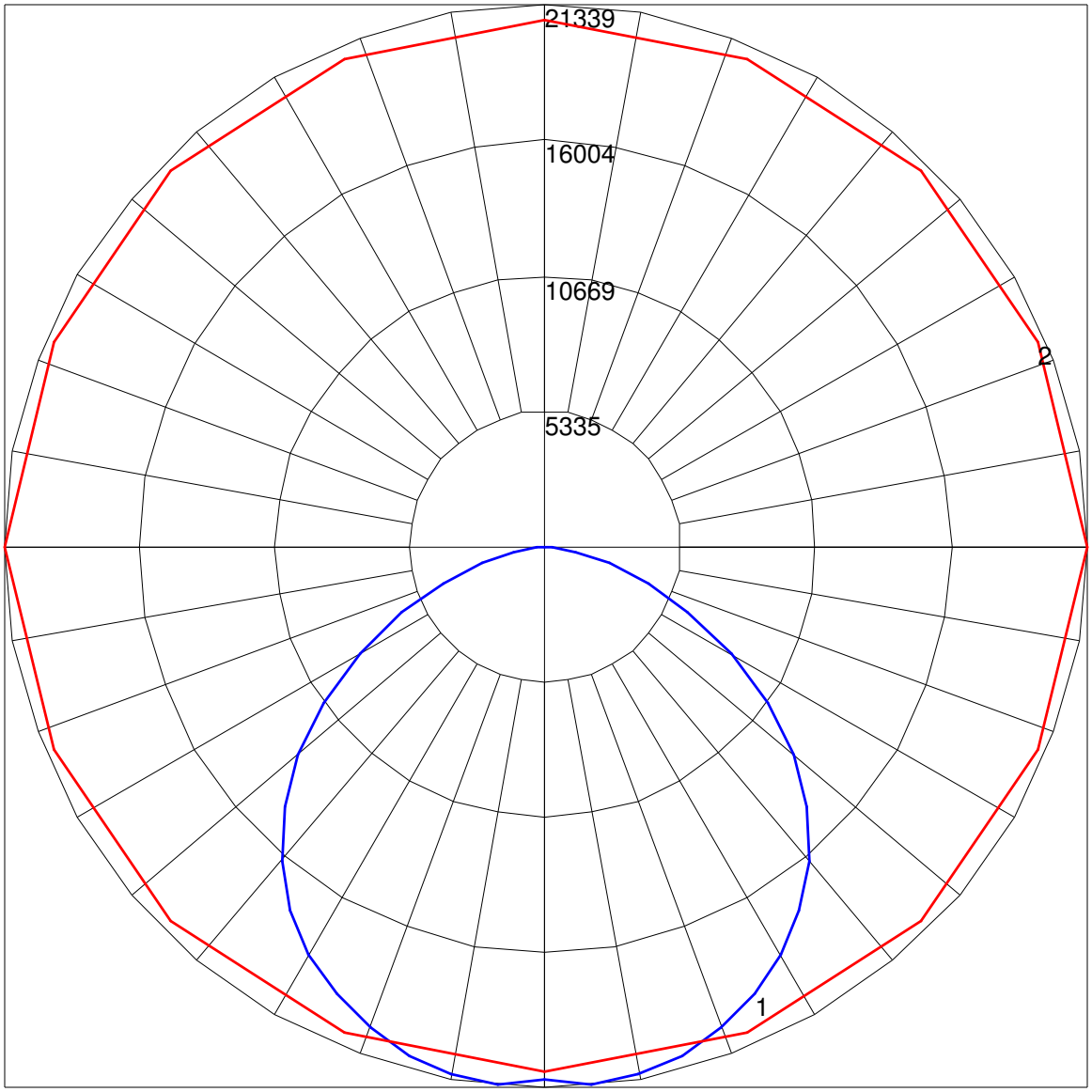
POLAR GRAPH



Maximum Candela = 21338.785 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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