H.E. WILLIAMS, INC.

IES INDOOR REPORT
PHOTOMETRIC FILENAME : GL-8-L600-930-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-L600-930-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	44048
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	110
Total Luminaire Watts	400
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	22636	22173	16925
55	21477	15745	15951
65	18007	13964	13654
75	11691	7867	5809
85	2329	2378	1989

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CANDELA TABULATION

	0.0	22.5	45.0	67.5	90.0
0	16506.863	16506.863	16506.863	16506.863	16506.863
5	16690.901	16500.571	16381.024	16319.678	16335.408
10	16544.614	16354.283	16253.613	16185.974	16207.996
15	16259.905	16123.055	16020.811	15909.130	15950.027
20	15901.265	15704.642	15622.847	15523.749	15585.096
25	15421.506	15169.829	15149.380	15103.764	15113.201
30	14770.292	14539.063	14551.647	14482.436	14523.334
35	13936.612	13662.913	13799.762	13766.730	13776.168
40	13003.834	12697.103	12761.595	12928.331	12903.163
45	11907.466	11621.184	11663.654	10779.639	8903.072
50	10595.600	10428.864	10450.886	7699.742	7773.672
55	9164.187	9074.527	6718.202	6811.008	6806.289
60	7572.331	7495.254	5615.542	5724.078	5724.078
65	5661.159	5752.392	4390.190	4541.196	4292.665
70	3860.095	3057.875	3131.805	2881.701	2277.676
75	2250.936	1768.031	1514.781	1388.942	1118.389
80	895.026	778.626	569.419	465.602	432.570
85	151.006	135.276	154.152	155.725	128.984
90	0.000	0.000	0.000	0.000	0.000

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ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixt
0-20	6093.73	N.A.	13.80
0-30	13088.35	N.A.	29.70
0-40	21698.73	N.A.	49.30
0-60	37243.66	N.A.	84.60
0-80	43799.96	N.A.	99.40
0-90	44048.06	N.A.	100.00
10-90	42483.79	N.A.	96.40
20-40	15605.00	N.A.	35.40
20-50	24194.15	N.A.	54.90
40-70	20301.62	N.A.	46.10
60-80	6556.29	N.A.	14.90
70-80	1799.61	N.A.	4.10
80-90	248.10	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	44048.06	N.A.	100.00

Total Luminaire Efficiency = N.A.%

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	1564.27
10-20	4529.46
20-30	6994.62
30-40	8610.37
40-50	8589.15
50-60	6955.78
60-70	4756.69
70-80	1799.61
80-90	248.10
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	23.3	24.9	23.7	25.2	25.5	21.4	22.9	21.7	23.2	23.6
	3H	24.5	25.9	24.9	26.3	26.6	22.6	24.0	23.0	24.3	24.7
	4H	24.9	26.2	25.3	26.5	26.9	22.8	24.1	23.2	24.5	24.8
	6H	25.0	26.2	25.4	26.6	27.0	22.8	24.1	23.3	24.4	24.8
	8H	25.0	26.2	25.4	26.6	27.0	22.8	24.0	23.2	24.4	24.8
	12H	25.0	26.1	25.4	26.5	26.9	22.8	23.9	23.2	24.3	24.7
4H	2H	23.6	24.9	24.0	25.2	25.6	21.9	23.2	22.3	23.6	24.0
	3H	24.9	26.0	25.3	26.4	26.8	23.3	24.4	23.7	24.8	25.2
	4H	25.3	26.3	25.8	26.7	27.2	23.6	24.6	24.0	25.0	25.4
	6H	25.5	26.4	26.0	26.8	27.3	23.7	24.5	24.2	25.0	25.4
	8H	25.6	26.4	26.0	26.8	27.3	23.7	24.5	24.2	24.9	25.4
	12H	25.6	26.3	26.0	26.7	27.2	23.7	24.4	24.2	24.9	25.3
8H	4H	25.4	26.2	25.8	26.6	27.1	23.7	24.5	24.2	25.0	25.4
	6H	25.6	26.3	26.1	26.8	27.2	23.8	24.5	24.3	25.0	25.5
	8H	25.7	26.2	26.2	26.7	27.2	23.9	24.4	24.4	24.9	25.4
	12H	25.7	26.2	26.2	26.7	27.2	23.9	24.4	24.4	24.9	25.4
12H	4H	25.4	26.1	25.8	26.5	27.0	23.7	24.4	24.2	24.9	25.4
	6H	25.6	26.2	26.1	26.6	27.2	23.8	24.4	24.4	24.9	25.4
	8H	25.6	26.2	26.1	26.6	27.2	23.9	24.4	24.4	24.9	25.4

Maximum UGR = 27.3

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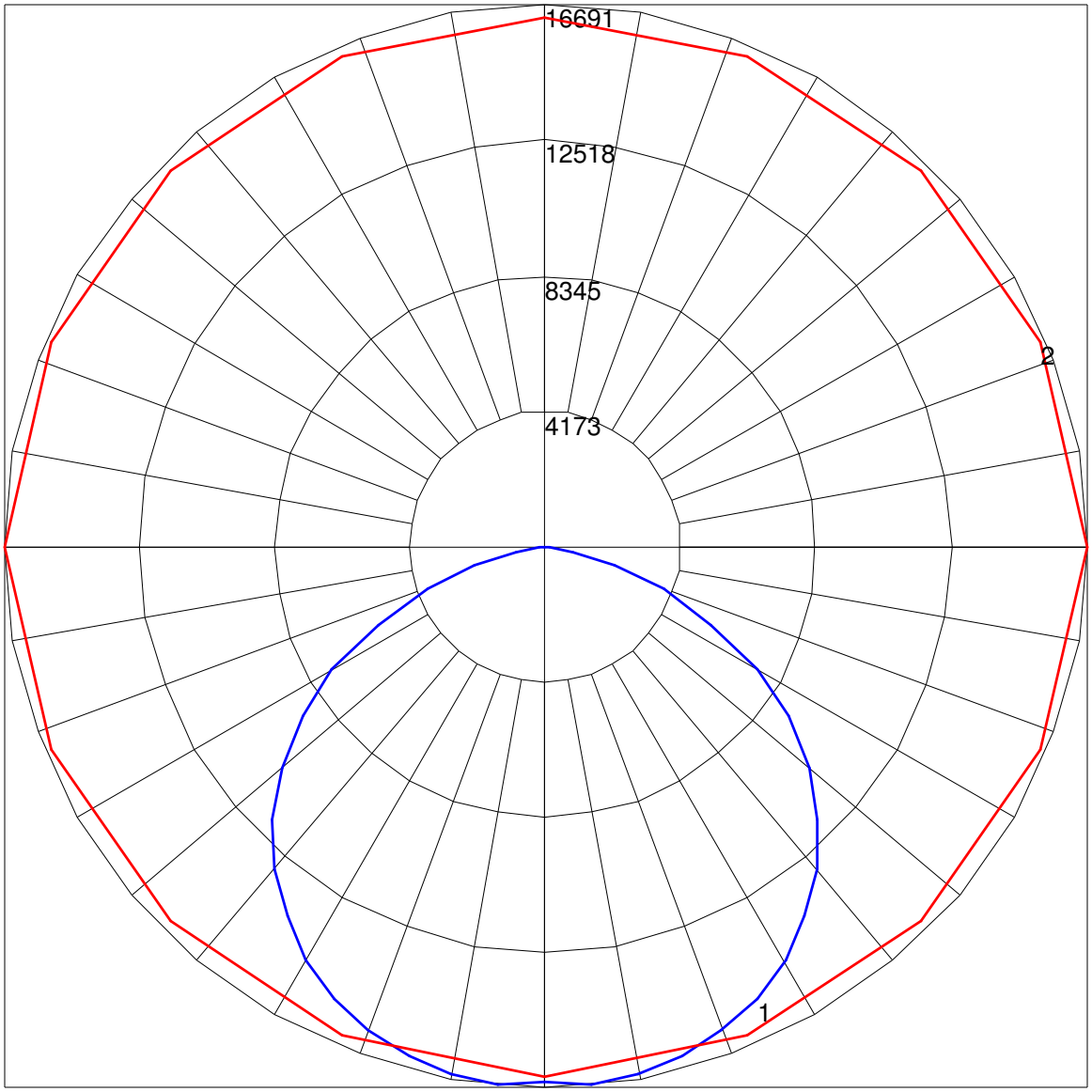
POLAR GRAPH



Maximum Candela = 16690.901 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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