H.E. WILLIAMS, INC.

IES INDOOR REPORT
PHOTOMETRIC FILENAME : GL-8-L600-935-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-L600-935-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	44606
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	112
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	22923	22454	17139
55	21749	15944	16153
65	18234	14141	13827
75	11839	7967	5882
85	2359	2408	2015

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CANDELA TABULATION

	0.0	22.5	45.0	67.5	90.0
0	16715.809	16715.809	16715.809	16715.809	16715.809
5	16902.178	16709.438	16588.378	16526.255	16542.184
10	16754.039	16561.299	16459.354	16390.859	16413.160
15	16465.725	16327.144	16223.606	16110.510	16151.925
20	16102.546	15903.433	15820.604	15720.252	15782.374
25	15616.714	15361.851	15341.143	15294.949	15304.507
30	14957.256	14723.101	14735.844	14665.757	14707.172
35	14113.024	13835.860	13974.442	13940.991	13950.549
40	13168.439	12857.825	12923.133	13091.980	13066.493
45	12058.193	11768.286	11811.295	10916.089	9015.769
50	10729.721	10560.874	10583.175	7797.207	7872.073
55	9280.189	9189.394	6803.242	6897.223	6892.444
60	7668.182	7590.131	5686.625	5796.534	5796.534
65	5732.818	5825.206	4445.762	4598.679	4347.002
70	3908.957	3096.582	3171.448	2918.178	2306.508
75	2279.429	1790.411	1533.955	1406.524	1132.546
80	906.356	788.482	576.627	471.496	438.045
85	152.918	136.989	156.103	157.696	130.617
90	0.000	0.000	0.000	0.000	0.000

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ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixt
0-20	6170.87	N.A.	13.80
0-30	13254.03	N.A.	29.70
0-40	21973.39	N.A.	49.30
0-60	37715.1	N.A.	84.60
0-80	44354.39	N.A.	99.40
0-90	44605.62	N.A.	100.00
10-90	43021.55	N.A.	96.40
20-40	15802.53	N.A.	35.40
20-50	24500.4	N.A.	54.90
40-70	20558.6	N.A.	46.10
60-80	6639.28	N.A.	14.90
70-80	1822.39	N.A.	4.10
80-90	251.24	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	44605.62	N.A.	100.00

Total Luminaire Efficiency = N.A.%

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	1584.07
10-20	4586.79
20-30	7083.16
30-40	8719.37
40-50	8697.88
50-60	7043.83
60-70	4816.9
70-80	1822.39
80-90	251.24
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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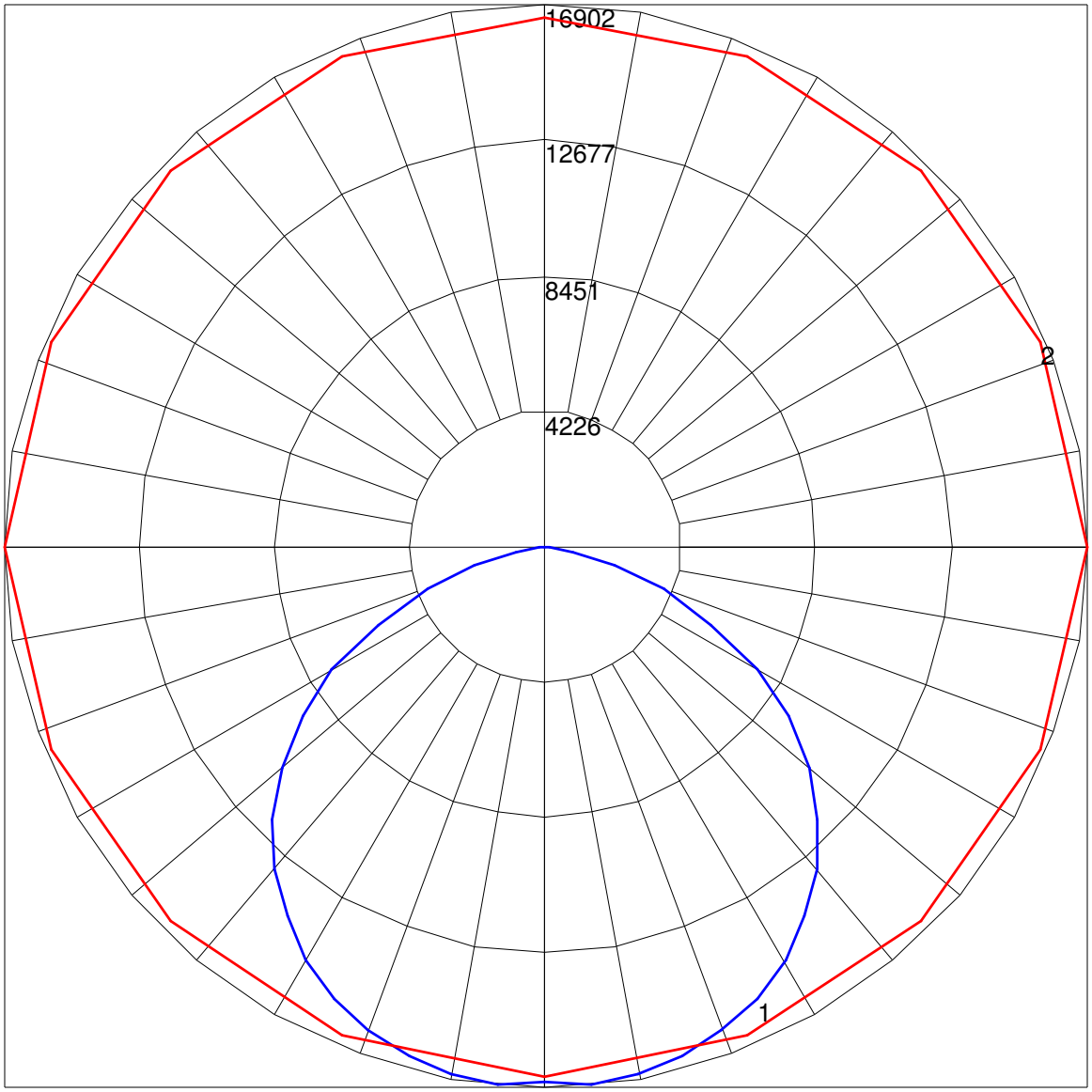
POLAR GRAPH



Maximum Candela = 16902.178 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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