H.E. WILLIAMS, INC.

IES INDOOR REPORT
PHOTOMETRIC FILENAME : GL-8-L600-950-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-L600-950-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	47951
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	120
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	24642	24138	18425
55	23380	17140	17365
65	19602	15201	14864
75	12727	8564	6323
85	2535	2588	2166

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CANDELA TABULATION

	0.0	22.5	45.0	67.5	90.0
0	17969.495	17969.495	17969.495	17969.495	17969.495
5	18169.841	17962.645	17832.506	17765.724	17782.848
10	18010.591	17803.396	17693.805	17620.174	17644.147
15	17700.654	17551.679	17440.376	17318.798	17363.320
20	17310.237	17096.192	17007.149	16899.270	16966.052
25	16787.967	16513.990	16491.729	16442.071	16452.345
30	16079.051	15827.334	15841.033	15765.689	15810.210
35	15171.500	14873.550	15022.525	14986.566	14996.840
40	14156.071	13822.161	13892.368	14073.878	14046.480
45	12962.557	12650.908	12697.142	11734.796	9691.952
50	11534.450	11352.940	11376.913	8381.997	8462.478
55	9976.203	9878.599	7313.485	7414.514	7409.377
60	8243.296	8159.390	6113.121	6231.274	6231.274
65	6162.780	6262.097	4779.194	4943.580	4673.028
70	4202.129	3328.826	3409.307	3137.042	2479.496
75	2450.386	1924.691	1649.002	1512.013	1217.487
80	974.332	847.618	619.874	506.858	470.899
85	164.386	147.263	167.811	169.524	140.413
90	0.000	0.000	0.000	0.000	0.000

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ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixt
0-20	6633.68	N.A.	13.80
0-30	14248.08	N.A.	29.70
0-40	23621.4	N.A.	49.30
0-60	40543.73	N.A.	84.60
0-80	47680.96	N.A.	99.40
0-90	47951.05	N.A.	100.00
10-90	46248.17	N.A.	96.40
20-40	16987.72	N.A.	35.40
20-50	26337.93	N.A.	54.90
40-70	22100.5	N.A.	46.10
60-80	7137.23	N.A.	14.90
70-80	1959.07	N.A.	4.10
80-90	270.08	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	47951.05	N.A.	100.00

Total Luminaire Efficiency = N.A.%

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	1702.88
10-20	4930.8
20-30	7614.4
30-40	9373.32
40-50	9350.22
50-60	7572.12
60-70	5178.16
70-80	1959.07
80-90	270.08
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	23.5	25.1	23.9	25.4	25.7	21.6	23.1	21.9	23.4	23.8
	3H	24.7	26.1	25.1	26.5	26.8	22.8	24.2	23.2	24.5	24.9
	4H	25.1	26.4	25.5	26.7	27.1	23.0	24.3	23.4	24.7	25.0
	6H	25.2	26.4	25.6	26.8	27.2	23.0	24.3	23.5	24.6	25.0
	8H	25.2	26.4	25.6	26.8	27.2	23.0	24.2	23.4	24.6	25.0
	12H	25.2	26.3	25.6	26.7	27.1	23.0	24.1	23.4	24.5	24.9
4H	2H	23.8	25.1	24.2	25.4	25.8	22.1	23.4	22.5	23.8	24.2
	3H	25.1	26.2	25.5	26.6	27.0	23.5	24.6	23.9	25.0	25.4
	4H	25.5	26.5	26.0	26.9	27.4	23.8	24.8	24.2	25.2	25.6
	6H	25.7	26.6	26.2	27.0	27.5	23.9	24.7	24.4	25.2	25.6
	8H	25.8	26.6	26.2	27.0	27.5	23.9	24.7	24.4	25.1	25.6
	12H	25.8	26.5	26.2	26.9	27.4	23.9	24.6	24.4	25.1	25.5
8H	4H	25.6	26.4	26.0	26.8	27.3	23.9	24.7	24.4	25.2	25.6
	6H	25.8	26.5	26.3	27.0	27.4	24.0	24.7	24.5	25.2	25.7
	8H	25.9	26.4	26.4	26.9	27.4	24.1	24.6	24.6	25.1	25.6
	12H	25.9	26.4	26.4	26.9	27.4	24.1	24.6	24.6	25.1	25.6
12H	4H	25.6	26.3	26.0	26.7	27.2	23.9	24.6	24.4	25.1	25.6
	6H	25.8	26.4	26.3	26.8	27.4	24.0	24.6	24.6	25.1	25.6
	8H	25.8	26.4	26.3	26.8	27.4	24.1	24.6	24.6	25.1	25.6

Maximum UGR = 27.5

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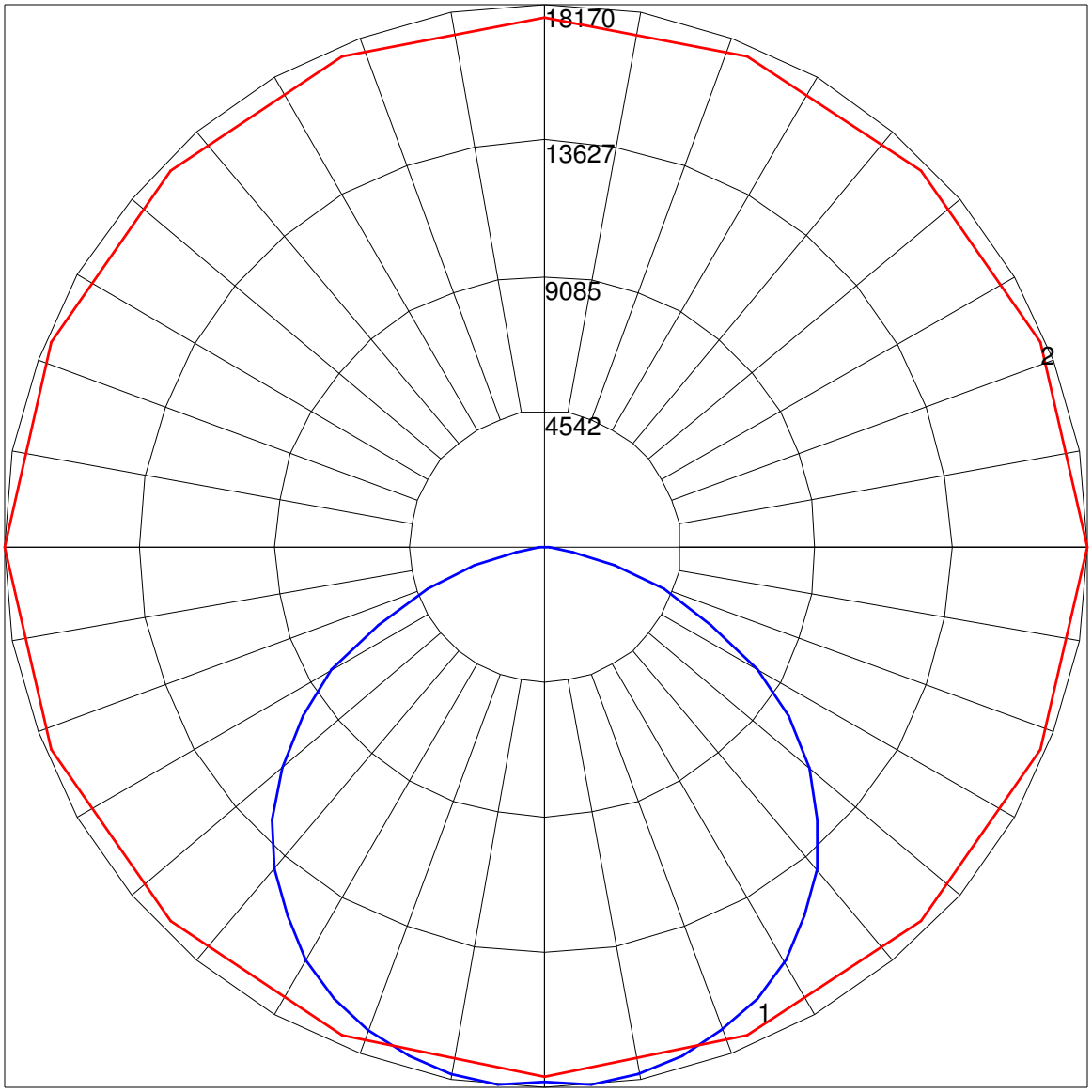
POLAR GRAPH



Maximum Candela = 18169.841 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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