H.E. WILLIAMS, INC.

IES INDOOR REPORT
PHOTOMETRIC FILENAME : GL-8-L600-850-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-L600-850-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	57430
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	144
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	29513	28909	22067
55	28002	20528	20797
65	23477	18206	17802
75	15242	10257	7573
85	3037	3100	2594

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CANDELA TABULATION

	0.0	22.5	45.0	67.5	90.0
0	21521.589	21521.589	21521.589	21521.589	21521.589
5	21761.538	21513.386	21357.521	21277.538	21298.047
10	21570.809	21322.657	21191.403	21103.216	21131.928
15	21199.606	21021.182	20887.877	20742.267	20795.589
20	20732.013	20475.657	20369.013	20239.810	20319.793
25	20106.505	19778.369	19751.708	19692.233	19704.538
30	19257.454	18955.979	18972.386	18882.149	18935.471
35	18170.505	17813.658	17992.081	17949.013	17961.318
40	16954.353	16554.437	16638.522	16855.912	16823.098
45	15524.912	15151.658	15207.031	14054.455	11607.794
50	13814.506	13597.116	13625.828	10038.896	10135.286
55	11948.235	11831.337	8759.168	8880.168	8874.015
60	9872.778	9772.286	7321.524	7463.032	7463.032
65	7380.999	7499.948	5723.914	5920.795	5596.762
70	5032.779	3986.847	4083.236	3757.152	2969.627
75	2934.762	2305.152	1974.966	1810.898	1458.152
80	1166.932	1015.169	742.407	607.051	563.983
85	196.881	176.373	200.983	203.034	168.169
90	0.000	0.000	0.000	0.000	0.000

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ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixt
0-20	7944.98	N.A.	13.80
0-30	17064.55	N.A.	29.70
0-40	28290.72	N.A.	49.30
0-60	48558.16	N.A.	84.60
0-80	57106.23	N.A.	99.40
0-90	57429.7	N.A.	100.00
10-90	55390.21	N.A.	96.40
20-40	20345.74	N.A.	35.40
20-50	31544.24	N.A.	54.90
40-70	26469.18	N.A.	46.10
60-80	8548.07	N.A.	14.90
70-80	2346.32	N.A.	4.10
80-90	323.47	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	57429.7	N.A.	100.00

Total Luminaire Efficiency = N.A.%

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	2039.49
10-20	5905.49
20-30	9119.56
30-40	11226.17
40-50	11198.51
50-60	9068.93
60-70	6201.75
70-80	2346.32
80-90	323.47
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	24.2	25.8	24.6	26.1	26.4	22.3	23.8	22.6	24.1	24.5
	3H	25.4	26.8	25.8	27.2	27.5	23.5	24.9	23.9	25.2	25.6
	4H	25.8	27.1	26.2	27.4	27.8	23.7	25.0	24.1	25.4	25.7
	6H	25.9	27.1	26.3	27.5	27.9	23.7	25.0	24.2	25.3	25.7
	8H	25.9	27.1	26.3	27.5	27.9	23.7	24.9	24.1	25.3	25.7
	12H	25.9	27.0	26.3	27.4	27.8	23.7	24.8	24.1	25.2	25.6
4H	2H	24.5	25.8	24.9	26.1	26.5	22.8	24.1	23.2	24.5	24.9
	3H	25.8	26.9	26.2	27.3	27.7	24.2	25.3	24.6	25.7	26.1
	4H	26.2	27.2	26.7	27.6	28.1	24.5	25.5	24.9	25.9	26.3
	6H	26.4	27.3	26.9	27.7	28.2	24.6	25.4	25.1	25.9	26.3
	8H	26.5	27.3	26.9	27.7	28.2	24.6	25.4	25.1	25.8	26.3
	12H	26.5	27.2	26.9	27.6	28.1	24.6	25.3	25.1	25.8	26.2
8H	4H	26.3	27.1	26.7	27.5	28.0	24.6	25.4	25.1	25.9	26.3
	6H	26.5	27.2	27.0	27.7	28.1	24.7	25.4	25.2	25.9	26.4
	8H	26.6	27.1	27.1	27.6	28.1	24.8	25.3	25.3	25.8	26.3
	12H	26.6	27.1	27.1	27.6	28.1	24.8	25.3	25.3	25.8	26.3
12H	4H	26.3	27.0	26.7	27.4	27.9	24.6	25.3	25.1	25.8	26.3
	6H	26.5	27.1	27.0	27.5	28.1	24.7	25.3	25.3	25.8	26.3
	8H	26.5	27.1	27.0	27.5	28.1	24.8	25.3	25.3	25.8	26.3

Maximum UGR = 28.2

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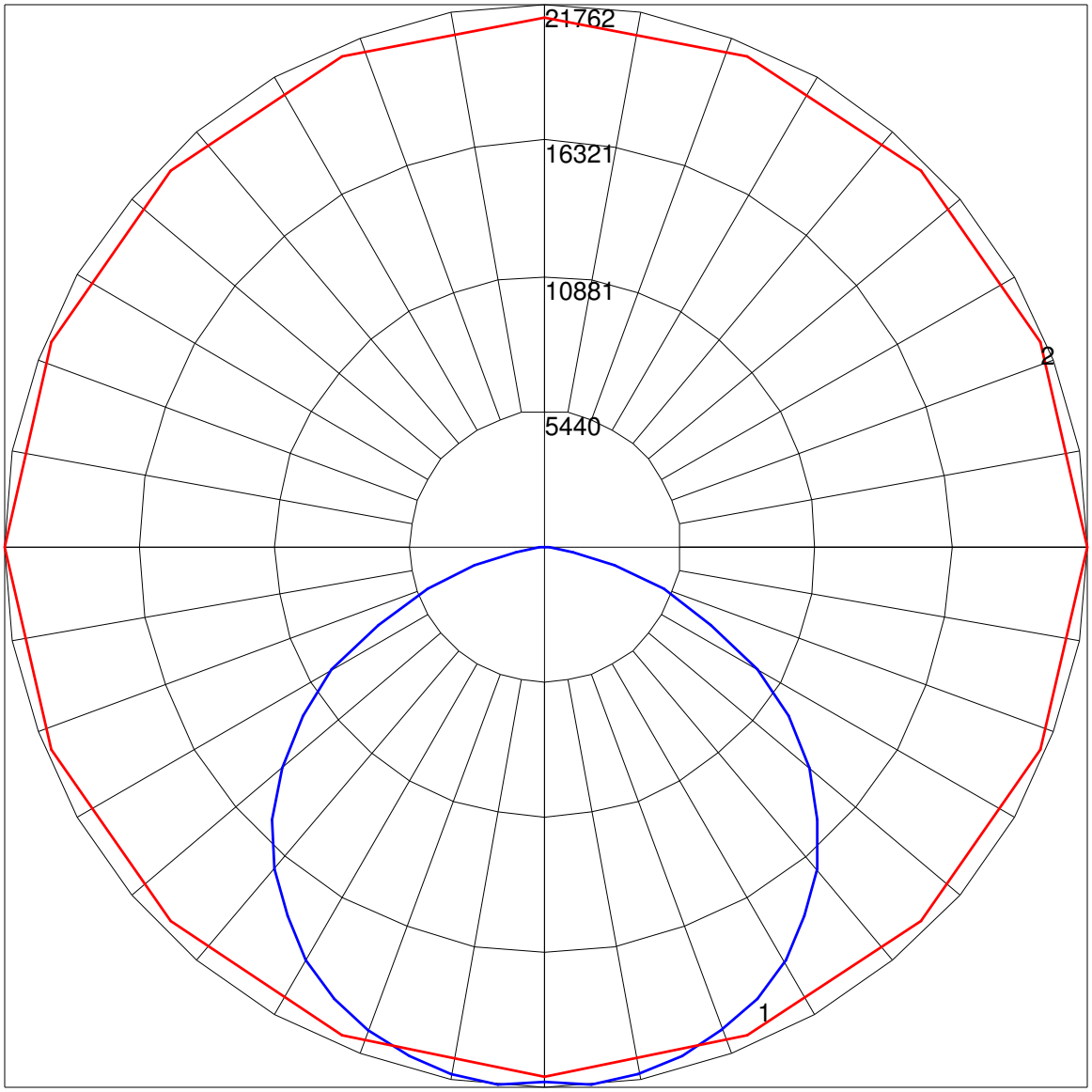
POLAR GRAPH



Maximum Candela = 21761.538 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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