H.E. WILLIAMS, INC.

IES INDOOR REPORT
PHOTOMETRIC FILENAME : GL-8-L600-840-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-L600-840-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	55757
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	139
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	28654	28067	21424
55	27186	19930	20191
65	22793	17676	17283
75	14798	9959	7353
85	2948	3010	2518

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CANDELA TABULATION

	0.0	22.5	45.0	67.5	90.0
0	20894.739	20894.739	20894.739	20894.739	20894.739
5	21127.699	20886.775	20735.450	20657.797	20677.708
10	20942.526	20701.601	20574.170	20488.552	20516.428
15	20582.135	20408.908	20279.485	20138.116	20189.885
20	20128.161	19879.272	19775.734	19650.294	19727.947
25	19520.871	19202.293	19176.409	19118.667	19130.613
30	18696.551	18403.857	18419.786	18332.177	18383.946
35	17641.261	17294.807	17468.034	17426.221	17438.167
40	16460.531	16072.264	16153.899	16364.957	16333.100
45	15072.725	14710.342	14764.103	13645.097	11269.699
50	13412.137	13201.079	13228.954	9746.498	9840.080
55	11600.224	11486.731	8504.043	8621.519	8615.546
60	9585.218	9487.653	7108.273	7245.660	7245.660
65	7166.015	7281.500	5557.196	5748.343	5433.747
70	4886.191	3870.724	3964.306	3647.719	2883.132
75	2849.283	2238.011	1917.442	1758.153	1415.681
80	1132.943	985.601	720.783	589.369	547.556
85	191.147	171.236	195.129	197.120	163.271
90	0.000	0.000	0.000	0.000	0.000

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ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixt
0-20	7713.57	N.A.	13.80
0-30	16567.52	N.A.	29.70
0-40	27466.71	N.A.	49.30
0-60	47143.83	N.A.	84.60
0-80	55442.92	N.A.	99.40
0-90	55756.97	N.A.	100.00
10-90	53776.88	N.A.	96.40
20-40	19753.14	N.A.	35.40
20-50	30625.47	N.A.	54.90
40-70	25698.23	N.A.	46.10
60-80	8299.1	N.A.	14.90
70-80	2277.98	N.A.	4.10
80-90	314.05	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	55756.97	N.A.	100.00

Total Luminaire Efficiency = N.A.%

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	1980.09
10-20	5733.49
20-30	8853.94
30-40	10899.19
40-50	10872.33
50-60	8804.78
60-70	6021.11
70-80	2277.98
80-90	314.05
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	24.1	25.7	24.5	26.0	26.3	22.2	23.7	22.5	24.0	24.4
	3H	25.3	26.7	25.7	27.1	27.4	23.4	24.8	23.8	25.1	25.5
	4H	25.7	27.0	26.1	27.3	27.7	23.6	24.9	24.0	25.3	25.6
	6H	25.8	27.0	26.2	27.4	27.8	23.6	24.9	24.1	25.2	25.6
	8H	25.8	27.0	26.2	27.4	27.8	23.6	24.8	24.0	25.2	25.6
	12H	25.8	26.9	26.2	27.3	27.7	23.6	24.7	24.0	25.1	25.5
4H	2H	24.4	25.7	24.8	26.0	26.4	22.7	24.0	23.1	24.4	24.8
	3H	25.7	26.8	26.1	27.2	27.6	24.1	25.2	24.5	25.6	26.0
	4H	26.1	27.1	26.6	27.5	28.0	24.4	25.4	24.8	25.8	26.2
	6H	26.3	27.2	26.8	27.6	28.1	24.5	25.3	25.0	25.8	26.2
	8H	26.4	27.2	26.8	27.6	28.1	24.5	25.3	25.0	25.7	26.2
	12H	26.4	27.1	26.8	27.5	28.0	24.5	25.2	25.0	25.7	26.1
8H	4H	26.2	27.0	26.6	27.4	27.9	24.5	25.3	25.0	25.8	26.2
	6H	26.4	27.1	26.9	27.6	28.0	24.6	25.3	25.1	25.8	26.3
	8H	26.5	27.0	27.0	27.5	28.0	24.7	25.2	25.2	25.7	26.2
	12H	26.5	27.0	27.0	27.5	28.0	24.7	25.2	25.2	25.7	26.2
12H	4H	26.2	26.9	26.6	27.3	27.8	24.5	25.2	25.0	25.7	26.2
	6H	26.4	27.0	26.9	27.4	28.0	24.6	25.2	25.2	25.7	26.2
	8H	26.4	27.0	26.9	27.4	28.0	24.7	25.2	25.2	25.7	26.2

Maximum UGR = 28.1

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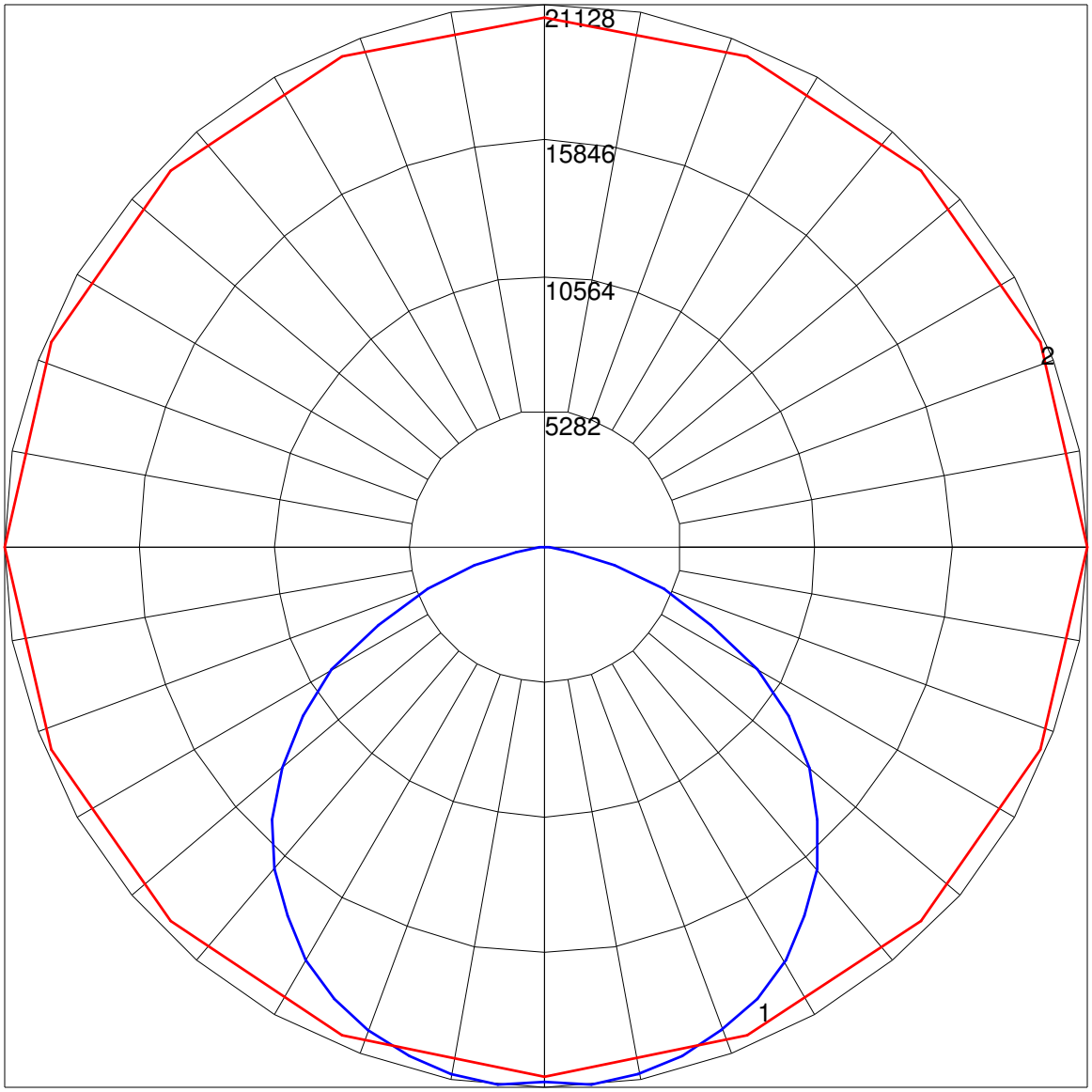
POLAR GRAPH



Maximum Candela = 21127.699 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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