H.E. WILLIAMS, INC.

IES INDOOR REPORT
PHOTOMETRIC FILENAME : GL-8-L300-935-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-L300-935-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	22272
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	116
Total Luminaire Watts	192
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	11446	11212	8558
55	10860	7961	8066
65	9105	7061	6904
75	5911	3978	2937
85	1178	1202	1006

Photometric Toolbox (R) Copyright 2002-2019 by Lighting Analysts, Inc.
Calculations based on published IES Methods and recommendations, values rounded for display purposes.
Results derived from content of manufacturers photometric file.

IES INDOOR REPORT
PHOTOMETRIC FILENAME : GL-8-L300-935-SCHA118-DIM-UNV_.IES

CANDELA TABULATION

	0.0	22.5	45.0	67.5	90.0
0	8346.544	8346.544	8346.544	8346.544	8346.544
5	8439.601	8343.362	8282.915	8251.896	8259.849
10	8365.633	8269.394	8218.490	8184.290	8195.425
15	8221.672	8152.475	8100.776	8044.306	8064.985
20	8040.329	7940.908	7899.550	7849.442	7880.461
25	7797.743	7670.485	7660.145	7637.080	7641.852
30	7468.463	7351.544	7357.907	7322.911	7343.591
35	7046.920	6908.527	6977.723	6961.021	6965.793
40	6575.269	6420.174	6452.783	6537.092	6524.366
45	6020.901	5876.145	5897.620	5450.626	4501.757
50	5357.568	5273.260	5284.395	3893.304	3930.686
55	4633.787	4588.452	3396.997	3443.924	3441.538
60	3828.880	3789.907	2839.447	2894.328	2894.328
65	2862.513	2908.644	2219.859	2296.214	2170.547
70	1951.822	1546.187	1583.569	1457.106	1151.686
75	1138.165	893.988	765.935	702.306	565.503
80	452.562	393.705	287.922	235.428	218.725
85	76.355	68.401	77.946	78.741	65.220
90	0.000	0.000	0.000	0.000	0.000

Photometric Toolbox (R) Copyright 2002-2019 by Lighting Analysts, Inc.
Calculations based on published IES Methods and recommendations, values rounded for display purposes.
Results derived from content of manufacturers photometric file.

IES INDOOR REPORT
PHOTOMETRIC FILENAME : GL-8-L300-935-SCHA118-DIM-UNV_.IES

ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixt
0-20	3081.24	N.A.	13.80
0-30	6618.01	N.A.	29.70
0-40	10971.76	N.A.	49.30
0-60	18831.92	N.A.	84.60
0-80	22147.05	N.A.	99.40
0-90	22272.5	N.A.	100.00
10-90	21481.54	N.A.	96.40
20-40	7890.52	N.A.	35.40
20-50	12233.55	N.A.	54.90
40-70	10265.33	N.A.	46.10
60-80	3315.13	N.A.	14.90
70-80	909.96	N.A.	4.10
80-90	125.45	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	22272.5	N.A.	100.00

Total Luminaire Efficiency = N.A.%

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	790.96
10-20	2290.28
20-30	3536.77
30-40	4353.76
40-50	4343.03
50-60	3517.13
60-70	2405.17
70-80	909.96
80-90	125.45
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

Photometric Toolbox (R) Copyright 2002-2019 by Lighting Analysts, Inc.
Calculations based on published IES Methods and recommendations, values rounded for display purposes.
Results derived from content of manufacturers photometric file.

IES INDOOR REPORT
PHOTOMETRIC FILENAME : GL-8-L300-935-SCHA118-DIM-UNV_.IES

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

Photometric Toolbox (R) Copyright 2002-2019 by Lighting Analysts, Inc.
Calculations based on published IES Methods and recommendations, values rounded for display purposes.
Results derived from content of manufacturers photometric file.

IES INDOOR REPORT
PHOTOMETRIC FILENAME : GL-8-L300-935-SCHA118-DIM-UNV_.IES

UGR TABLE - CORRECTED

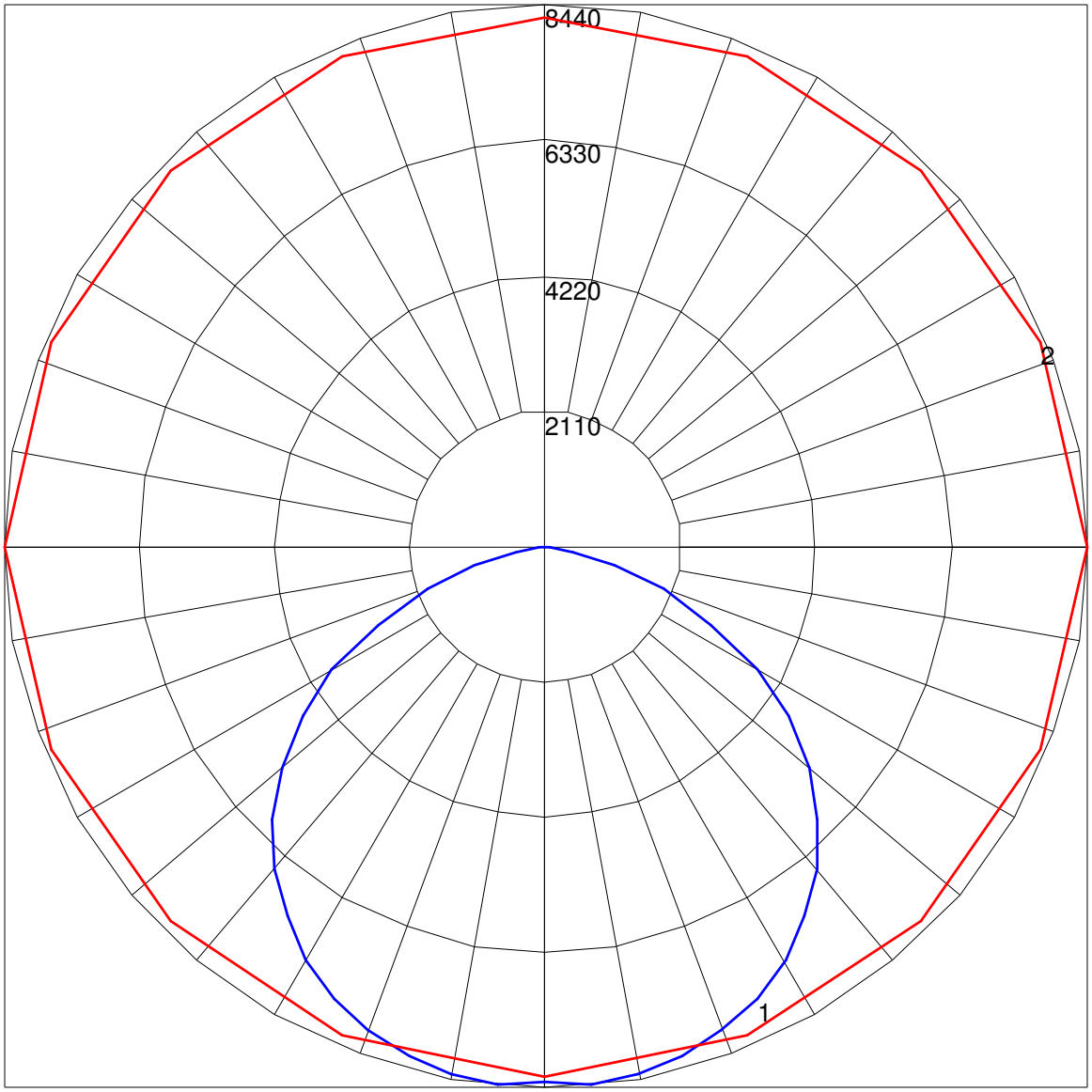
Reflectances											
Ceiling Cavity		70	70	50	50	30	70	70	50	50	30
Walls		50	30	50	30	30	50	30	50	30	30
Floor Cavity		20	20	20	20	20	20	20	20	20	20
Room Size		UGR Viewed Crosswise					UGR Viewed Endwise				
X=2H	Y=2H	20.9	22.5	21.3	22.8	23.1	19.0	20.5	19.3	20.8	21.2
	3H	22.1	23.5	22.5	23.9	24.2	20.2	21.6	20.6	21.9	22.3
	4H	22.5	23.8	22.9	24.1	24.5	20.4	21.7	20.8	22.1	22.4
	6H	22.6	23.8	23.0	24.2	24.6	20.4	21.7	20.9	22.0	22.4
	8H	22.6	23.8	23.0	24.2	24.6	20.4	21.6	20.8	22.0	22.4
	12H	22.6	23.7	23.0	24.1	24.5	20.4	21.5	20.8	21.9	22.3
4H	2H	21.2	22.5	21.6	22.8	23.2	19.5	20.8	19.9	21.2	21.6
	3H	22.5	23.6	22.9	24.0	24.4	20.9	22.0	21.3	22.4	22.8
	4H	22.9	23.9	23.4	24.3	24.8	21.2	22.2	21.6	22.6	23.0
	6H	23.1	24.0	23.6	24.4	24.9	21.3	22.1	21.8	22.6	23.0
	8H	23.2	24.0	23.6	24.4	24.9	21.3	22.1	21.8	22.5	23.0
	12H	23.2	23.9	23.6	24.3	24.8	21.3	22.0	21.8	22.5	22.9
8H	4H	23.0	23.8	23.4	24.2	24.7	21.3	22.1	21.8	22.6	23.0
	6H	23.2	23.9	23.7	24.4	24.8	21.4	22.1	21.9	22.6	23.1
	8H	23.3	23.8	23.8	24.3	24.8	21.5	22.0	22.0	22.5	23.0
	12H	23.3	23.8	23.8	24.3	24.8	21.5	22.0	22.0	22.5	23.0
12H	4H	23.0	23.7	23.4	24.1	24.6	21.3	22.0	21.8	22.5	23.0
	6H	23.2	23.8	23.7	24.2	24.8	21.4	22.0	22.0	22.5	23.0
	8H	23.2	23.8	23.7	24.2	24.8	21.5	22.0	22.0	22.5	23.0

Maximum UGR = 24.9

Photometric Toolbox (R) Copyright 2002-2019 by Lighting Analysts, Inc.
Calculations based on published IES Methods and recommendations, values rounded for display purposes.
Results derived from content of manufacturers photometric file.

IES INDOOR REPORT
PHOTOMETRIC FILENAME : GL-8-L300-935-SCHA118-DIM-UNV_.IES

POLAR GRAPH



Maximum Candela = 8439.601 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.)

Photometric Toolbox (R) Copyright 2002-2019 by Lighting Analysts, Inc.
Calculations based on published IES Methods and recommendations, values rounded for display purposes.
Results derived from content of manufacturers photometric file.