H.E. WILLIAMS, INC.

IES INDOOR REPORT
PHOTOMETRIC FILENAME : GL-8-L300-850-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-L300-850-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	28676
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	149
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	14737	14435	11018
55	13982	10250	10384
65	11722	9091	8889
75	7611	5122	3781
85	1516	1548	1295

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-L300-850-SCHA118-DIM-UNV_.IES

CANDELA TABULATION

	0.0	22.5	45.0	67.5	90.0
0	10746.149	10746.149	10746.149	10746.149	10746.149
5	10865.961	10742.053	10664.227	10624.290	10634.530
10	10770.726	10646.819	10581.281	10537.248	10551.584
15	10585.377	10496.286	10429.725	10357.019	10383.643
20	10351.898	10223.895	10170.646	10106.132	10146.069
25	10039.570	9875.725	9862.413	9832.716	9838.860
30	9615.622	9465.090	9473.283	9428.225	9454.850
35	9072.888	8894.707	8983.797	8962.293	8968.437
40	8465.639	8265.954	8307.939	8416.486	8400.101
45	7751.892	7565.518	7593.167	7017.663	5795.998
50	6897.852	6789.305	6803.642	5012.617	5060.746
55	5965.987	5907.617	4373.623	4434.041	4430.969
60	4929.671	4879.493	3655.780	3726.438	3726.438
65	3685.477	3744.870	2858.062	2956.369	2794.572
70	2512.965	1990.710	2038.840	1876.019	1482.792
75	1465.384	1151.007	986.139	904.217	728.084
80	582.672	506.894	370.698	303.112	281.608
85	98.307	88.066	100.355	101.379	83.970
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-L300-850-SCHA118-DIM-UNV_.IES

ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixt
0-20	3967.09	N.A.	13.80
0-30	8520.66	N.A.	29.70
0-40	14126.11	N.A.	49.30
0-60	24246.03	N.A.	84.60
0-80	28514.25	N.A.	99.40
0-90	28675.77	N.A.	100.00
10-90	27657.41	N.A.	96.40
20-40	10159.02	N.A.	35.40
20-50	15750.66	N.A.	54.90
40-70	13216.58	N.A.	46.10
60-80	4268.22	N.A.	14.90
70-80	1171.56	N.A.	4.10
80-90	161.52	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	28675.77	N.A.	100.00

Total Luminaire Efficiency = N.A.%

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	1018.36
10-20	2948.73
20-30	4553.58
30-40	5605.45
40-50	5591.63
50-60	4528.29
60-70	3096.66
70-80	1171.56
80-90	161.52
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-L300-850-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-L300-850-SCHA118-DIM-UNV_.IES

UGR TABLE - CORRECTED

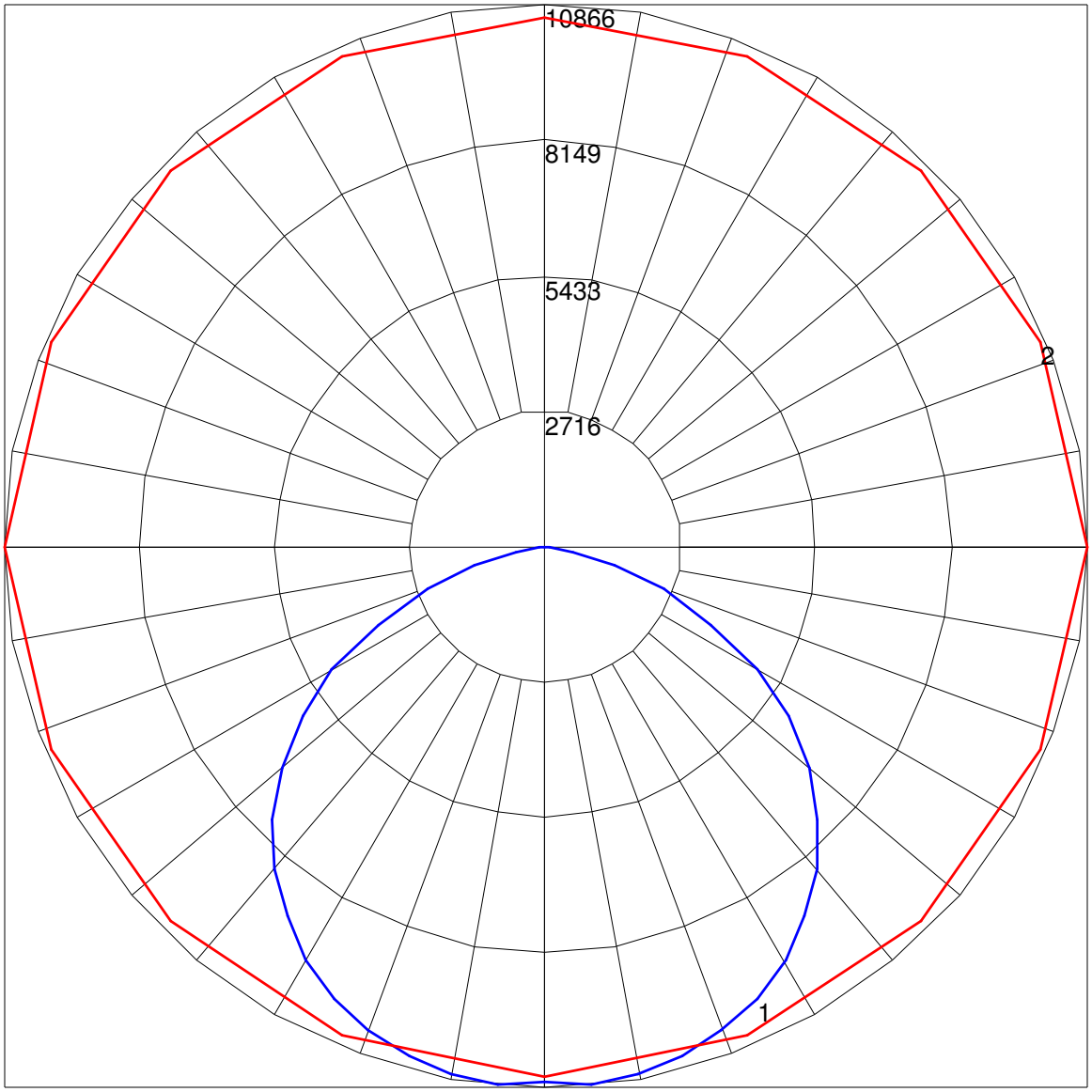
Reflectances											
Ceiling Cavity		70	70	50	50	30	70	70	50	50	30
Walls		50	30	50	30	30	50	30	50	30	30
Floor Cavity		20	20	20	20	20	20	20	20	20	20
Room Size		UGR Viewed Crosswise					UGR Viewed Endwise				
X=2H	Y=2H	21.8	23.4	22.2	23.7	24.0	19.9	21.4	20.2	21.7	22.1
	3H	23.0	24.4	23.4	24.8	25.1	21.1	22.5	21.5	22.8	23.2
	4H	23.4	24.7	23.8	25.0	25.4	21.3	22.6	21.7	23.0	23.3
	6H	23.5	24.7	23.9	25.1	25.5	21.3	22.6	21.8	22.9	23.3
	8H	23.5	24.7	23.9	25.1	25.5	21.3	22.5	21.7	22.9	23.3
	12H	23.5	24.6	23.9	25.0	25.4	21.3	22.4	21.7	22.8	23.2
4H	2H	22.1	23.4	22.5	23.7	24.1	20.4	21.7	20.8	22.1	22.5
	3H	23.4	24.5	23.8	24.9	25.3	21.8	22.9	22.2	23.3	23.7
	4H	23.8	24.8	24.3	25.2	25.7	22.1	23.1	22.5	23.5	23.9
	6H	24.0	24.9	24.5	25.3	25.8	22.2	23.0	22.7	23.5	23.9
	8H	24.1	24.9	24.5	25.3	25.8	22.2	23.0	22.7	23.4	23.9
	12H	24.1	24.8	24.5	25.2	25.7	22.2	22.9	22.7	23.4	23.8
8H	4H	23.9	24.7	24.3	25.1	25.6	22.2	23.0	22.7	23.5	23.9
	6H	24.1	24.8	24.6	25.3	25.7	22.3	23.0	22.8	23.5	24.0
	8H	24.2	24.7	24.7	25.2	25.7	22.4	22.9	22.9	23.4	23.9
	12H	24.2	24.7	24.7	25.2	25.7	22.4	22.9	22.9	23.4	23.9
12H	4H	23.9	24.6	24.3	25.0	25.5	22.2	22.9	22.7	23.4	23.9
	6H	24.1	24.7	24.6	25.1	25.7	22.3	22.9	22.9	23.4	23.9
	8H	24.1	24.7	24.6	25.1	25.7	22.4	22.9	22.9	23.4	23.9

Maximum UGR = 25.8

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-L300-850-SCHA118-DIM-UNV_.IES

POLAR GRAPH



Maximum Candela = 10865.961 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.)