H.E. WILLIAMS, INC.

IES INDOOR REPORT
PHOTOMETRIC FILENAME : GL-8-L300-840-SAF118-DIM-UNV_.IES

DESCRIPTION INFORMATION (From Photometric File)

IESNA:LM-63-2002
[TEST] GEN FROM BALLABS TEST NO. 19726.0
[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 FROSTED ACRYLIC LENS
[MORE] 0-10V LED DRIVERS
[LUMCAT] GL-8-L300-840-SAF118-DIM-UNV
[LAMPCAT] 22 INCH HLM 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	27178
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	142
Total Luminaire Watts	192
Ballast Factor	1.00
CIE Type	Direct
Spacing Criterion (0-180)	1.32
Spacing Criterion (90-270)	1.26
Spacing Criterion (Diagonal)	1.38
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	13835	13183	11476
55	12509	10694	9890
65	9849	8178	7840
75	6791	5561	5545
85	2425	2225	2409

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-L300-840-SAF118-DIM-UNV_.IES

CANDELA TABULATION

	0.0	22.5	45.0	67.5	90.0
0	10494.676	10494.676	10494.676	10494.676	10494.676
5	10654.877	10501.641	10432.983	10378.256	10362.335
10	10564.328	10390.196	10345.420	10282.732	10268.802
15	10394.177	10223.030	10187.209	10106.610	10096.660
20	10111.586	9989.196	9936.459	9815.064	9837.950
25	9747.401	9658.843	9585.210	9443.914	9477.746
30	9299.634	9224.011	9168.289	8990.177	8966.296
35	8746.392	8633.953	8620.022	8383.203	8209.071
40	8075.736	7964.292	7888.669	7520.504	7155.325
45	7277.715	7192.141	6934.426	6413.026	6036.901
50	6361.284	6280.686	5785.156	5319.478	5110.520
55	5337.389	5225.944	4563.249	4332.399	4219.960
60	4209.015	4106.526	3491.592	3288.604	3317.460
65	3096.561	2984.122	2571.181	2433.865	2464.711
70	2142.319	1937.341	1789.080	1685.596	1706.492
75	1307.481	1135.339	1070.662	1013.945	1067.677
80	621.899	536.326	505.480	494.534	525.381
85	157.216	146.271	144.281	150.251	156.221
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-L300-840-SAF118-DIM-UNV_.IES

ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixt
0-20	3872.13	N.A.	14.20
0-30	8284.75	N.A.	30.50
0-40	13600.48	N.A.	50.00
0-60	23058.73	N.A.	84.80
0-80	26953.18	N.A.	99.20
0-90	27178.00	N.A.	100.00
10-90	26182.96	N.A.	96.30
20-40	9728.34	N.A.	35.80
20-50	14963.62	N.A.	55.10
40-70	12149.31	N.A.	44.70
60-80	3894.45	N.A.	14.30
70-80	1203.4	N.A.	4.40
80-90	224.82	N.A.	0.80
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	27178.00	N.A.	100.00

Total Luminaire Efficiency = N.A.%

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	995.04
10-20	2877.09
20-30	4412.62
30-40	5315.73
40-50	5235.28
50-60	4222.98
60-70	2691.05
70-80	1203.4
80-90	224.82
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-L300-840-SAF118-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	79	84	80	77	81	78	75	73
3	92	82	75	68	90	81	74	68	78	72	67	75	70	66	73	68	64	62
4	85	73	65	59	82	72	64	58	69	63	57	67	61	57	65	60	56	54
5	78	66	57	51	76	65	57	50	63	55	50	61	54	49	59	53	49	47
6	72	59	51	45	70	58	50	44	57	49	44	55	48	44	53	48	43	41
7	67	54	45	39	65	53	45	39	52	44	39	50	44	39	49	43	38	37
8	62	49	41	35	61	49	41	35	47	40	35	46	40	35	45	39	35	33
9	58	45	37	32	57	45	37	32	44	36	32	42	36	31	41	36	31	29
10	55	42	34	29	53	41	34	29	40	33	29	39	33	29	38	33	28	27

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-L300-840-SAF118-DIM-UNV_.IES

UGR TABLE - CORRECTED

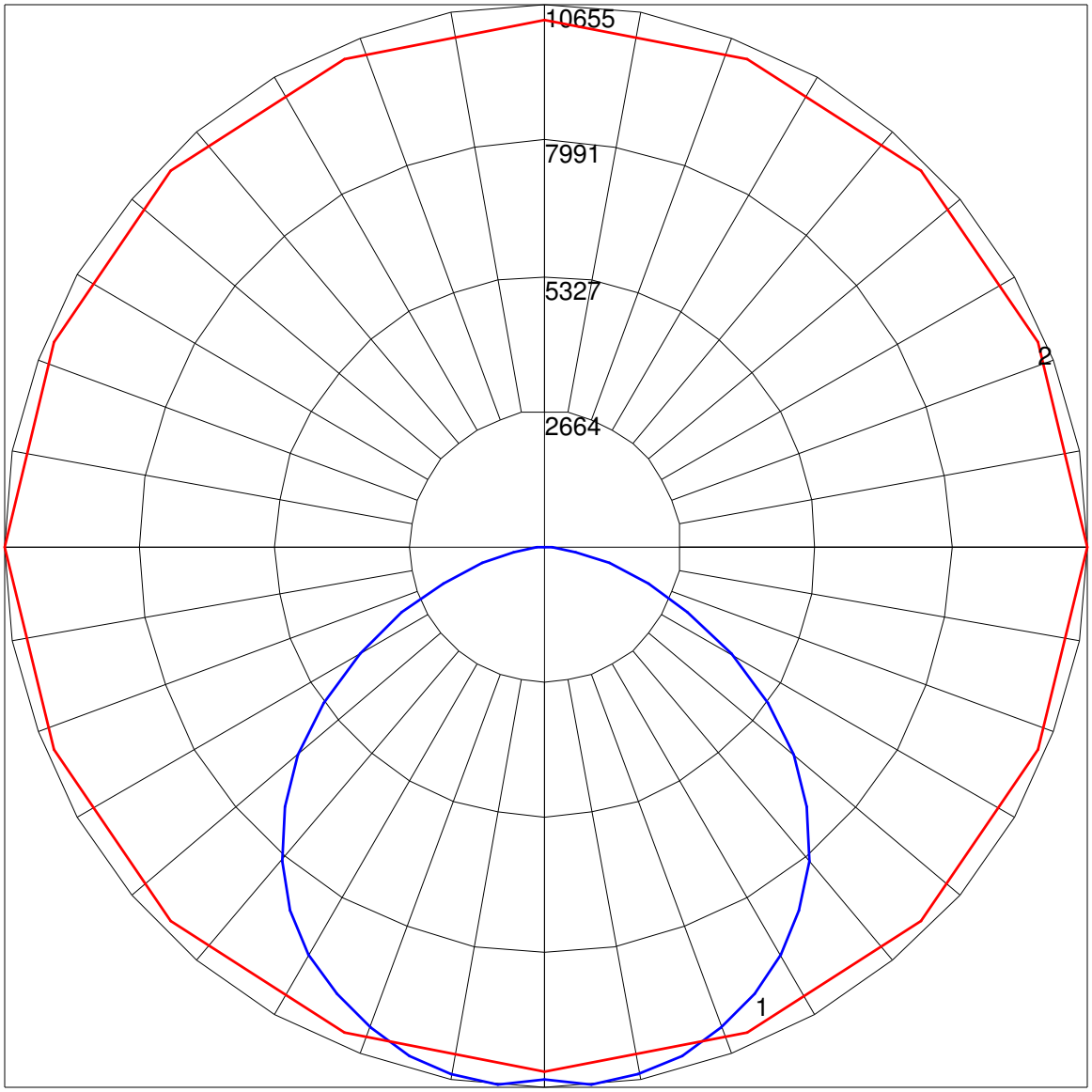
Reflectances											
Ceiling Cavity		70	70	50	50	30	70	70	50	50	30
Walls		50	30	50	30	30	50	30	50	30	30
Floor Cavity		20	20	20	20	20	20	20	20	20	20
Room Size		UGR Viewed Crosswise					UGR Viewed Endwise				
X=2H	Y=2H	21.0	22.5	21.3	22.9	23.2	19.5	21.1	19.9	21.4	21.7
	3H	22.2	23.6	22.6	23.9	24.3	20.8	22.2	21.2	22.5	22.9
	4H	22.6	23.9	23.0	24.3	24.6	21.2	22.5	21.6	22.8	23.2
	6H	22.8	24.0	23.2	24.4	24.8	21.4	22.6	21.8	23.0	23.4
	8H	22.8	24.0	23.3	24.4	24.8	21.5	22.6	21.9	23.0	23.4
	12H	22.8	23.9	23.2	24.3	24.7	21.5	22.6	21.9	22.9	23.4
4H	2H	21.3	22.6	21.7	22.9	23.3	20.0	21.4	20.4	21.7	22.1
	3H	22.7	23.8	23.1	24.2	24.6	21.5	22.6	21.9	23.0	23.4
	4H	23.2	24.1	23.6	24.5	25.0	22.0	22.9	22.4	23.4	23.8
	6H	23.4	24.3	23.9	24.7	25.2	22.3	23.1	22.7	23.6	24.0
	8H	23.5	24.3	24.0	24.7	25.2	22.3	23.1	22.8	23.6	24.0
	12H	23.5	24.2	24.0	24.7	25.2	22.4	23.1	22.8	23.5	24.0
8H	4H	23.2	24.0	23.7	24.5	25.0	22.2	22.9	22.6	23.4	23.9
	6H	23.6	24.2	24.1	24.7	25.2	22.5	23.2	23.0	23.6	24.1
	8H	23.6	24.2	24.2	24.7	25.2	22.6	23.2	23.1	23.7	24.2
	12H	23.7	24.2	24.2	24.7	25.3	22.7	23.2	23.2	23.7	24.2
12H	4H	23.2	23.9	23.7	24.4	24.9	22.2	22.9	22.6	23.3	23.8
	6H	23.6	24.2	24.1	24.6	25.2	22.5	23.1	23.0	23.6	24.1
	8H	23.7	24.2	24.2	24.7	25.2	22.6	23.1	23.1	23.6	24.2

Maximum UGR = 25.3

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-L300-840-SAF118-DIM-UNV_.IES

POLAR GRAPH



Maximum Candela = 10654.877 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.