H.E. WILLIAMS, INC.

IES INDOOR REPORT
PHOTOMETRIC FILENAME : GL-8-L600-930-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-L600-930-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	43000
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	107
Total Luminaire Watts	400
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	21889	20857	18157
55	19791	16920	15647
65	15583	12939	12403
75	10744	8798	8773
85	3836	3521	3812

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-L600-930-SAF118-DIM-UNV_.IES

CANDELA TABULATION

	0.0	22.5	45.0	67.5	90.0
0	16604.163	16604.163	16604.163	16604.163	16604.163
5	16857.625	16615.183	16506.556	16419.969	16394.781
10	16714.364	16438.861	16368.017	16268.836	16246.796
15	16445.158	16174.378	16117.703	15990.185	15974.442
20	15998.056	15804.417	15720.979	15528.915	15565.123
25	15421.862	15281.749	15165.251	14941.700	14995.226
30	14713.426	14593.779	14505.618	14223.818	14186.035
35	13838.114	13660.218	13638.178	13263.494	12987.991
40	12777.035	12600.713	12481.066	11898.574	11320.805
45	11514.445	11379.055	10971.310	10146.376	9551.290
50	10064.512	9936.994	9152.992	8416.218	8085.615
55	8444.556	8268.234	7219.749	6854.511	6676.615
60	6659.297	6497.144	5524.226	5203.068	5248.723
65	4899.228	4721.332	4067.996	3850.743	3899.546
70	3389.472	3065.166	2830.595	2666.868	2699.928
75	2068.633	1796.279	1693.949	1604.214	1689.226
80	983.939	848.549	799.745	782.428	831.231
85	248.740	231.422	228.274	237.720	247.165
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-L600-930-SAF118-DIM-UNV_.IES

ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixt
0-20	6126.3	N.A.	14.20
0-30	13107.72	N.A.	30.50
0-40	21518.01	N.A.	50.00
0-60	36482.4	N.A.	84.80
0-80	42644.00	N.A.	99.20
0-90	42999.71	N.A.	100.00
10-90	41425.41	N.A.	96.30
20-40	15391.71	N.A.	35.80
20-50	23674.71	N.A.	55.10
40-70	19222.04	N.A.	44.70
60-80	6161.6	N.A.	14.30
70-80	1903.95	N.A.	4.40
80-90	355.71	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	42999.71	N.A.	100.00

Total Luminaire Efficiency = N.A.%

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	1574.3
10-20	4552.00
20-30	6981.43
30-40	8410.28
40-50	8283.00
50-60	6681.39
60-70	4257.65
70-80	1903.95
80-90	355.71
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-L600-930-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-L600-930-SAF118-DIM-UNV_.IES

UGR TABLE - CORRECTED

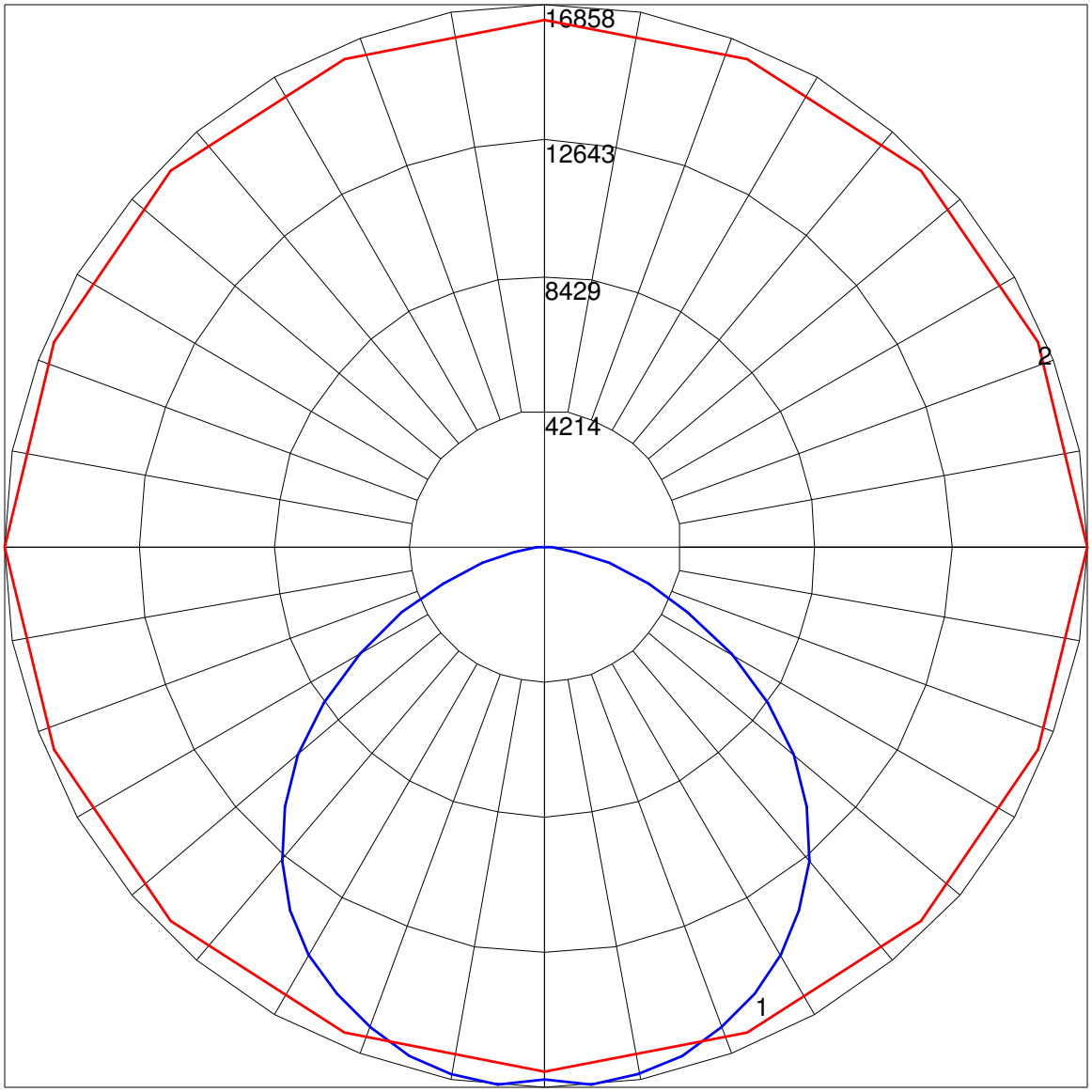
Reflectances											
Ceiling Cavity		70	70	50	50	30	70	70	50	50	30
Walls		50	30	50	30	30	50	30	50	30	30
Floor Cavity		20	20	20	20	20	20	20	20	20	20
Room Size		UGR Viewed Crosswise					UGR Viewed Endwise				
X=2H	Y=2H	22.6	24.1	22.9	24.5	24.8	21.1	22.7	21.5	23.0	23.3
	3H	23.8	25.2	24.2	25.5	25.9	22.4	23.8	22.8	24.1	24.5
	4H	24.2	25.5	24.6	25.9	26.2	22.8	24.1	23.2	24.4	24.8
	6H	24.4	25.6	24.8	26.0	26.4	23.0	24.2	23.4	24.6	25.0
	8H	24.4	25.6	24.9	26.0	26.4	23.1	24.2	23.5	24.6	25.0
	12H	24.4	25.5	24.8	25.9	26.3	23.1	24.2	23.5	24.5	25.0
4H	2H	22.9	24.2	23.3	24.5	24.9	21.6	23.0	22.0	23.3	23.7
	3H	24.3	25.4	24.7	25.8	26.2	23.1	24.2	23.5	24.6	25.0
	4H	24.8	25.7	25.2	26.1	26.6	23.6	24.5	24.0	25.0	25.4
	6H	25.0	25.9	25.5	26.3	26.8	23.9	24.7	24.3	25.2	25.6
	8H	25.1	25.9	25.6	26.3	26.8	23.9	24.7	24.4	25.2	25.6
	12H	25.1	25.8	25.6	26.3	26.8	24.0	24.7	24.4	25.1	25.6
8H	4H	24.8	25.6	25.3	26.1	26.6	23.8	24.5	24.2	25.0	25.5
	6H	25.2	25.8	25.7	26.3	26.8	24.1	24.8	24.6	25.2	25.7
	8H	25.2	25.8	25.8	26.3	26.8	24.2	24.8	24.7	25.3	25.8
	12H	25.3	25.8	25.8	26.3	26.9	24.3	24.8	24.8	25.3	25.8
12H	4H	24.8	25.5	25.3	26.0	26.5	23.8	24.5	24.2	24.9	25.4
	6H	25.2	25.8	25.7	26.2	26.8	24.1	24.7	24.6	25.2	25.7
	8H	25.3	25.8	25.8	26.3	26.8	24.2	24.7	24.7	25.2	25.8

Maximum UGR = 26.9

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-L600-930-SAF118-DIM-UNV_.IES

POLAR GRAPH



Maximum Candela = 16857.625 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.