H.E. WILLIAMS, INC.

IES INDOOR REPORT
PHOTOMETRIC FILENAME : GL-8-L600-830-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-L600-830-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	53527
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	134
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	27508	26944	20567
55	26099	19133	19384
65	21881	16969	16592
75	14206	9560	7059
85	2830	2889	2417

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-L600-830-SCHA118-DIM-UNV_.IES

CANDELA TABULATION

	0.0	22.5	45.0	67.5	90.0
0	20058.956	20058.956	20058.956	20058.956	20058.956
5	20282.597	20051.310	19906.038	19831.491	19850.605
10	20104.831	19873.543	19751.209	19669.016	19695.776
15	19758.855	19592.557	19468.312	19332.597	19382.295
20	19323.040	19084.106	18984.710	18864.287	18938.835
25	18740.042	18434.207	18409.358	18353.925	18365.394
30	17948.694	17667.708	17683.000	17598.895	17648.593
35	16935.615	16603.020	16769.317	16729.177	16740.645
40	15802.114	15429.378	15507.748	15710.364	15679.780
45	14469.820	14121.933	14173.543	13099.297	10818.914
50	12875.655	12673.039	12699.800	9356.641	9446.480
55	11136.218	11027.265	8163.884	8276.661	8270.926
60	9201.812	9108.150	6823.944	6955.836	6955.836
65	6879.377	6990.242	5334.910	5518.411	5216.399
70	4690.745	3715.896	3805.735	3501.811	2767.807
75	2735.312	2148.491	1840.745	1687.827	1359.054
80	1087.626	946.177	691.952	565.795	525.654
85	183.501	164.386	187.324	189.235	156.740
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-L600-830-SCHA118-DIM-UNV_.IES

ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixt
0-20	7405.03	N.A.	13.80
0-30	15904.82	N.A.	29.70
0-40	26368.05	N.A.	49.30
0-60	45258.09	N.A.	84.60
0-80	53225.22	N.A.	99.40
0-90	53526.71	N.A.	100.00
10-90	51625.82	N.A.	96.40
20-40	18963.02	N.A.	35.40
20-50	29400.46	N.A.	54.90
40-70	24670.31	N.A.	46.10
60-80	7967.14	N.A.	14.90
70-80	2186.86	N.A.	4.10
80-90	301.49	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	53526.71	N.A.	100.00

Total Luminaire Efficiency = N.A.%

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	1900.89
10-20	5504.15
20-30	8499.79
30-40	10463.23
40-50	10437.44
50-60	8452.59
60-70	5780.27
70-80	2186.86
80-90	301.49
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-L600-830-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-L600-830-SCHA118-DIM-UNV_.IES

UGR TABLE - CORRECTED

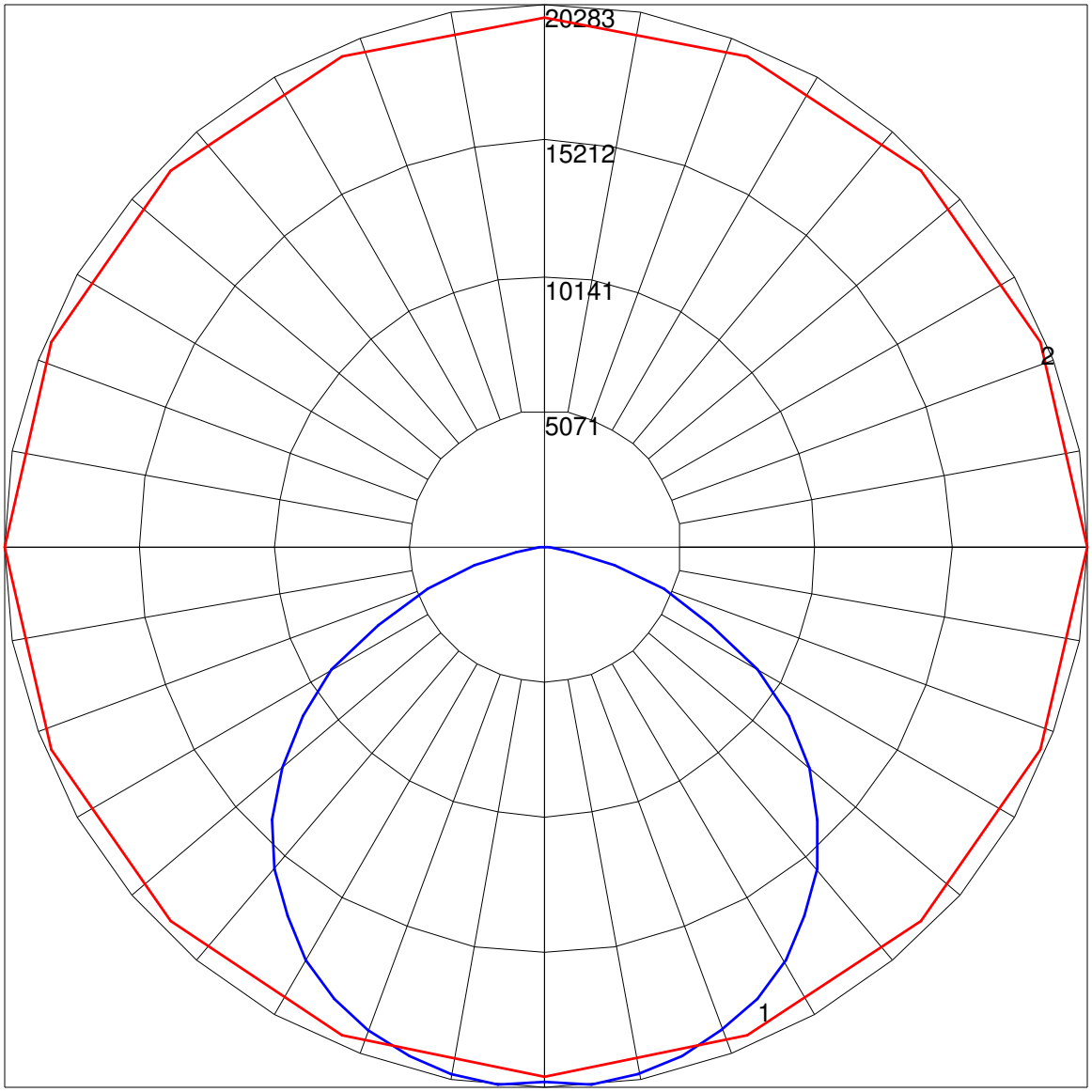
Reflectances											
Ceiling Cavity		70	70	50	50	30	70	70	50	50	30
Walls		50	30	50	30	30	50	30	50	30	30
Floor Cavity		20	20	20	20	20	20	20	20	20	20
Room Size		UGR Viewed Crosswise					UGR Viewed Endwise				
X=2H	Y=2H	23.9	25.5	24.3	25.8	26.1	22.0	23.5	22.3	23.8	24.2
	3H	25.1	26.5	25.5	26.9	27.2	23.2	24.6	23.6	24.9	25.3
	4H	25.5	26.8	25.9	27.1	27.5	23.4	24.7	23.8	25.1	25.4
	6H	25.6	26.8	26.0	27.2	27.6	23.4	24.7	23.9	25.0	25.4
	8H	25.6	26.8	26.0	27.2	27.6	23.4	24.6	23.8	25.0	25.4
	12H	25.6	26.7	26.0	27.1	27.5	23.4	24.5	23.8	24.9	25.3
4H	2H	24.2	25.5	24.6	25.8	26.2	22.5	23.8	22.9	24.2	24.6
	3H	25.5	26.6	25.9	27.0	27.4	23.9	25.0	24.3	25.4	25.8
	4H	25.9	26.9	26.4	27.3	27.8	24.2	25.2	24.6	25.6	26.0
	6H	26.1	27.0	26.6	27.4	27.9	24.3	25.1	24.8	25.6	26.0
	8H	26.2	27.0	26.6	27.4	27.9	24.3	25.1	24.8	25.5	26.0
	12H	26.2	26.9	26.6	27.3	27.8	24.3	25.0	24.8	25.5	25.9
8H	4H	26.0	26.8	26.4	27.2	27.7	24.3	25.1	24.8	25.6	26.0
	6H	26.2	26.9	26.7	27.4	27.8	24.4	25.1	24.9	25.6	26.1
	8H	26.3	26.8	26.8	27.3	27.8	24.5	25.0	25.0	25.5	26.0
	12H	26.3	26.8	26.8	27.3	27.8	24.5	25.0	25.0	25.5	26.0
12H	4H	26.0	26.7	26.4	27.1	27.6	24.3	25.0	24.8	25.5	26.0
	6H	26.2	26.8	26.7	27.2	27.8	24.4	25.0	25.0	25.5	26.0
	8H	26.2	26.8	26.7	27.2	27.8	24.5	25.0	25.0	25.5	26.0

Maximum UGR = 27.9

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-L600-830-SCHA118-DIM-UNV_.IES

POLAR GRAPH



Maximum Candela = 20282.597 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.