H.E. WILLIAMS, INC.

IES INDOOR REPORT
PHOTOMETRIC FILENAME : GL-8-L600-935-ND-DIM-UNV_.IES

DESCRIPTION INFORMATION (From Photometric File)

IESNA:LM-63-2002
[TEST] GEN FROM BALLABS TEST NO. 19459.0
[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 REFL w/CLEAR ACRYLIC ROD DIFFUSERS OVER LED
[MORE] 0-10V UNIVERSAL VOLTAGE 120-277 DRIVERS
[LUMCAT] GL-8-L600-935-ND-DIM-UNV
[LAMPCAT] 22 INCH HLM LED ARRAYS
[_SEARCH_SOURCETYPE] LED
[_SEARCH_APPLICATION] Indoor, Commercial, Industrial, Manufacturing, Warehouse, High Bay
[_SEARCH_MOUNTING] Pendant, Suspended

CHARACTERISTICS

Lumens Per Lamp	N.A. (absolute)
Total Lamp Lumens	N.A. (absolute)
Luminaire Lumens	45811
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	117
Total Luminaire Watts	390
Ballast Factor	1.00
CIE Type	Direct
Spacing Criterion (0-180)	1.32
Spacing Criterion (90-270)	0.58
Spacing Criterion (Diagonal)	0.72
Basic Luminous Shape	Rectangular
Luminous Length (0-180)	8.00 ft
Luminous Width (90-270)	1.04 ft
Luminous Height	0.00 ft

LUMINANCE DATA (cd/sq.m)

Angle In Degrees	Average 0-Deg	Average 45-Deg	Average 90-Deg
45	56415	6021	4450
55	38660	4469	3341
65	23395	3388	3438
75	11456	3742	3121
85	4392	1383	1383

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-L600-935-ND-DIM-UNV_.IES

CANDELA TABULATION

	0.0	22.5	45.0	67.5	90.0
0	46203.012	46203.012	46203.012	46203.012	46203.012
5	45170.195	44811.167	44091.474	43496.374	43152.102
10	44811.167	43340.632	40086.437	37287.993	36771.584
15	44201.313	40963.512	34769.886	30045.155	28481.174
20	44952.155	37522.426	26230.288	19144.831	16892.305
25	42917.669	32345.223	19207.128	12982.353	11136.396
30	41948.787	25931.918	11667.560	7164.147	6178.872
35	38256.874	18597.274	6896.926	4519.806	4098.482
40	35769.915	12747.920	4473.903	3393.543	3175.504
45	30922.230	7946.138	3300.098	2580.405	2439.417
50	23851.528	5332.945	2596.798	2111.538	1986.944
55	17189.035	3957.495	1986.944	1626.278	1485.290
60	11824.942	2814.838	1549.226	1360.696	1267.251
65	7664.162	1736.117	1109.869	1173.805	1126.263
70	4536.200	1250.857	954.127	985.275	875.436
75	2298.429	937.733	750.842	672.151	626.248
80	1109.869	688.545	468.866	296.730	250.827
85	296.730	219.679	93.445	93.445	93.445
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-L600-935-ND-DIM-UNV_.IES

ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixt
0-20	13879.43	N.A.	30.30
0-30	24338.96	N.A.	53.10
0-40	32564.71	N.A.	71.10
0-60	42386.87	N.A.	92.50
0-80	45583.6	N.A.	99.50
0-90	45810.65	N.A.	100.00
10-90	41707.2	N.A.	91.00
20-40	18685.28	N.A.	40.80
20-50	24654.11	N.A.	53.80
40-70	11985.26	N.A.	26.20
60-80	3196.73	N.A.	7.00
70-80	1033.63	N.A.	2.30
80-90	227.05	N.A.	0.50
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	45810.65	N.A.	100.00

Total Luminaire Efficiency = N.A.%

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	4103.45
10-20	9775.98
20-30	10459.53
30-40	8225.75
40-50	5968.83
50-60	3853.33
60-70	2163.11
70-80	1033.63
80-90	227.05
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-L600-935-ND-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	112	108	105	102	109	106	103	101	102	100	98	98	96	95	95	93	92	90
2	105	98	93	89	102	97	92	88	93	89	86	90	87	84	87	85	82	81
3	98	90	84	79	96	88	83	78	86	81	77	83	79	75	81	77	74	72
4	92	82	76	70	90	81	75	70	79	73	69	77	72	68	75	71	67	66
5	86	76	69	64	84	75	68	63	73	67	63	71	66	62	69	65	62	60
6	81	70	63	58	79	69	63	58	68	62	57	66	61	57	65	60	56	55
7	76	65	58	53	75	65	58	53	63	57	53	62	56	52	61	56	52	51
8	72	61	54	49	71	60	54	49	59	53	49	58	53	49	57	52	48	47
9	68	57	50	46	67	57	50	46	56	50	45	55	49	45	54	49	45	44
10	65	54	47	43	64	53	47	43	52	46	42	51	46	42	51	46	42	41

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-L600-935-ND-DIM-UNV_.IES

UGR TABLE - CORRECTED

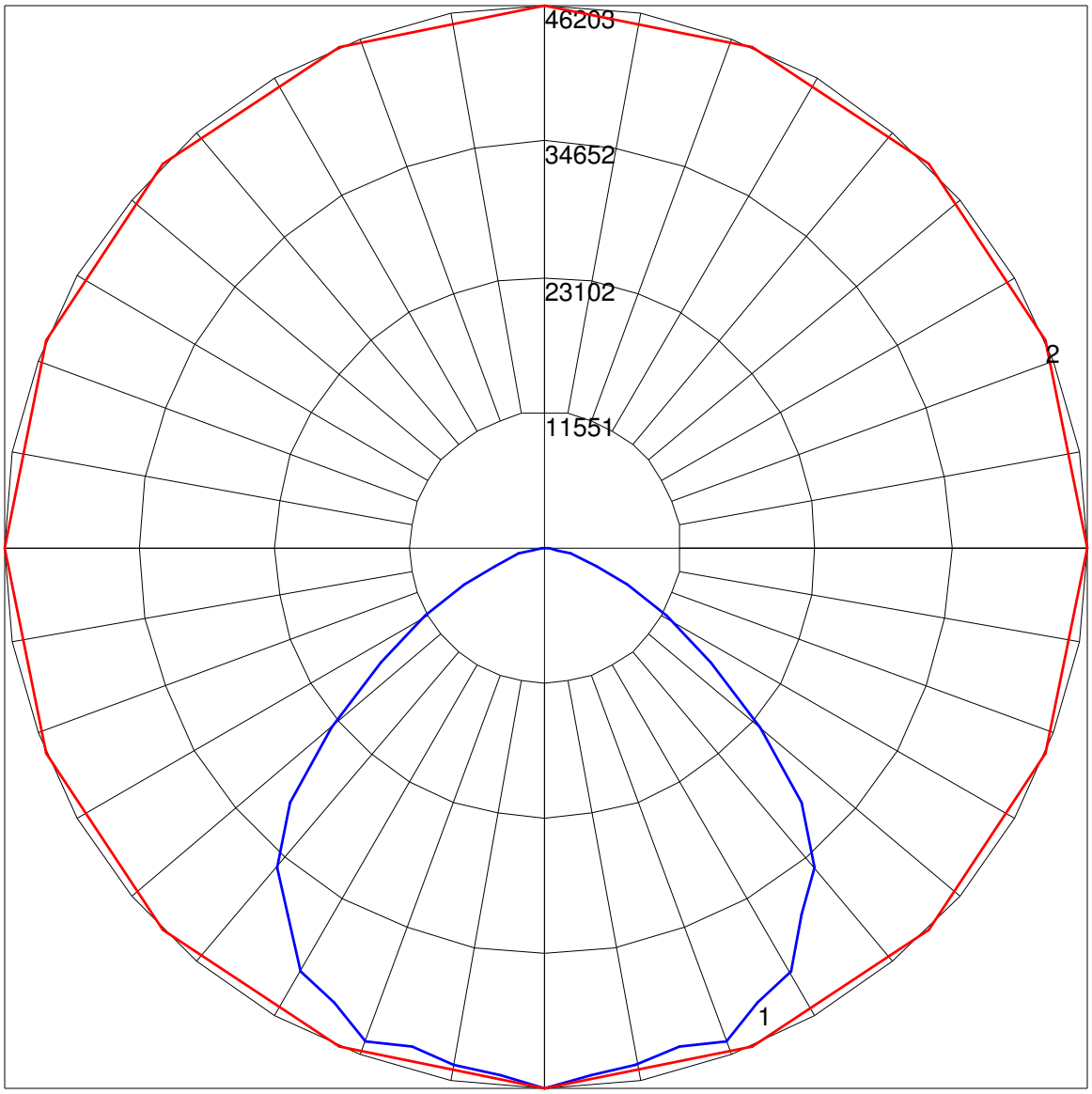
Reflectances											
Ceiling Cavity		70	70	50	50	30	70	70	50	50	30
Walls		50	30	50	30	30	50	30	50	30	30
Floor Cavity		20	20	20	20	20	20	20	20	20	20
Room Size		UGR Viewed Crosswise					UGR Viewed Endwise				
X=2H	Y=2H	20.2	21.5	20.6	21.9	22.2	13.3	13.3	13.3	13.3	13.3
	3H	22.1	23.3	22.5	23.6	23.9	13.3	14.5	13.7	14.8	15.2
	4H	22.6	23.7	23.0	24.0	24.4	14.1	15.1	14.5	15.5	15.9
	6H	22.9	23.9	23.4	24.3	24.7	14.4	15.4	14.8	15.7	16.1
	8H	23.0	23.9	23.4	24.3	24.7	14.4	15.4	14.9	15.8	16.2
	12H	23.0	23.9	23.5	24.3	24.7	14.4	15.3	14.9	15.7	16.1
4H	2H	20.1	21.2	20.5	21.5	21.9	13.3	13.3	13.3	13.3	13.7
	3H	22.0	22.9	22.4	23.3	23.7	14.2	15.1	14.7	15.5	15.9
	4H	22.6	23.3	23.0	23.8	24.2	15.1	15.9	15.5	16.3	16.7
	6H	23.0	23.7	23.5	24.1	24.6	15.5	16.2	16.0	16.6	17.1
	8H	23.1	23.7	23.6	24.2	24.7	15.6	16.2	16.0	16.7	17.1
	12H	23.2	23.7	23.6	24.2	24.7	15.6	16.2	16.1	16.6	17.1
8H	4H	22.5	23.1	22.9	23.6	24.0	15.5	16.2	16.0	16.6	17.1
	6H	23.0	23.5	23.5	24.0	24.5	16.0	16.6	16.5	17.1	17.5
	8H	23.1	23.6	23.6	24.1	24.6	16.2	16.6	16.7	17.1	17.6
	12H	23.2	23.6	23.7	24.1	24.7	16.2	16.6	16.7	17.1	17.7
12H	4H	22.5	23.0	22.9	23.5	24.0	15.6	16.2	16.1	16.7	17.2
	6H	22.9	23.4	23.5	23.9	24.4	16.2	16.6	16.7	17.1	17.7
	8H	23.1	23.5	23.6	24.0	24.6	16.3	16.7	16.8	17.2	17.8

Maximum UGR = 24.7

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-L600-935-ND-DIM-UNV_.IES

POLAR GRAPH



Maximum Candela = 46203.012 Located At Horizontal Angle = 0, Vertical Angle = 0
1 - Vertical Plane Through Horizontal Angles (0 - 180) (Through Max. Cd.)
2 - Horizontal Cone Through Vertical Angle (0) (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.