H.E. WILLIAMS, INC.

IES INDOOR REPORT
PHOTOMETRIC FILENAME : GL-8-L300-935-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-L300-935-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	22874
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	118
Total Luminaire Watts	194
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	28169	3006	2222
55	19304	2231	1668
65	11682	1692	1717
75	5720	1869	1559
85	2193	691	691

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-L300-935-ND-DIM-UNV_.IES

CANDELA TABULATION

	0.0	22.5	45.0	67.5	90.0
0	23070.039	23070.039	23070.039	23070.039	23070.039
5	22554.334	22375.065	22015.708	21718.564	21546.662
10	22375.065	21640.799	20015.917	18618.601	18360.749
15	22070.553	20453.858	17361.263	15002.115	14221.190
20	22445.463	18735.658	13097.280	9559.377	8434.648
25	21429.605	16150.583	9590.483	6482.335	5560.614
30	20945.824	12948.298	5825.834	3577.194	3085.228
35	19102.382	9285.971	3443.766	2256.825	2046.450
40	17860.596	6365.278	2233.905	1694.461	1585.589
45	15440.055	3967.657	1647.801	1288.445	1218.047
50	11909.520	2662.841	1296.631	1054.331	992.119
55	8582.811	1976.052	992.119	812.031	741.633
60	5904.417	1405.502	773.558	679.421	632.762
65	3826.861	866.876	554.179	586.103	562.364
70	2265.011	624.577	476.414	491.967	437.122
75	1147.649	468.228	374.910	335.618	312.698
80	554.179	343.804	234.114	148.163	125.243
85	148.163	109.690	46.659	46.659	46.659
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-L300-935-ND-DIM-UNV_.IES

ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixt
0-20	6930.26	N.A.	30.30
0-30	12152.9	N.A.	53.10
0-40	16260.18	N.A.	71.10
0-60	21164.56	N.A.	92.50
0-80	22760.76	N.A.	99.50
0-90	22874.13	N.A.	100.00
10-90	20825.2	N.A.	91.00
20-40	9329.91	N.A.	40.80
20-50	12310.26	N.A.	53.80
40-70	5984.47	N.A.	26.20
60-80	1596.19	N.A.	7.00
70-80	516.11	N.A.	2.30
80-90	113.37	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	22874.13	N.A.	100.00

Total Luminaire Efficiency = N.A.%

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	2048.93
10-20	4881.33
20-30	5222.64
30-40	4107.27
40-50	2980.35
50-60	1924.04
60-70	1080.08
70-80	516.11
80-90	113.37
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-L300-935-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-L300-935-ND-DIM-UNV_.IES

UGR TABLE - CORRECTED

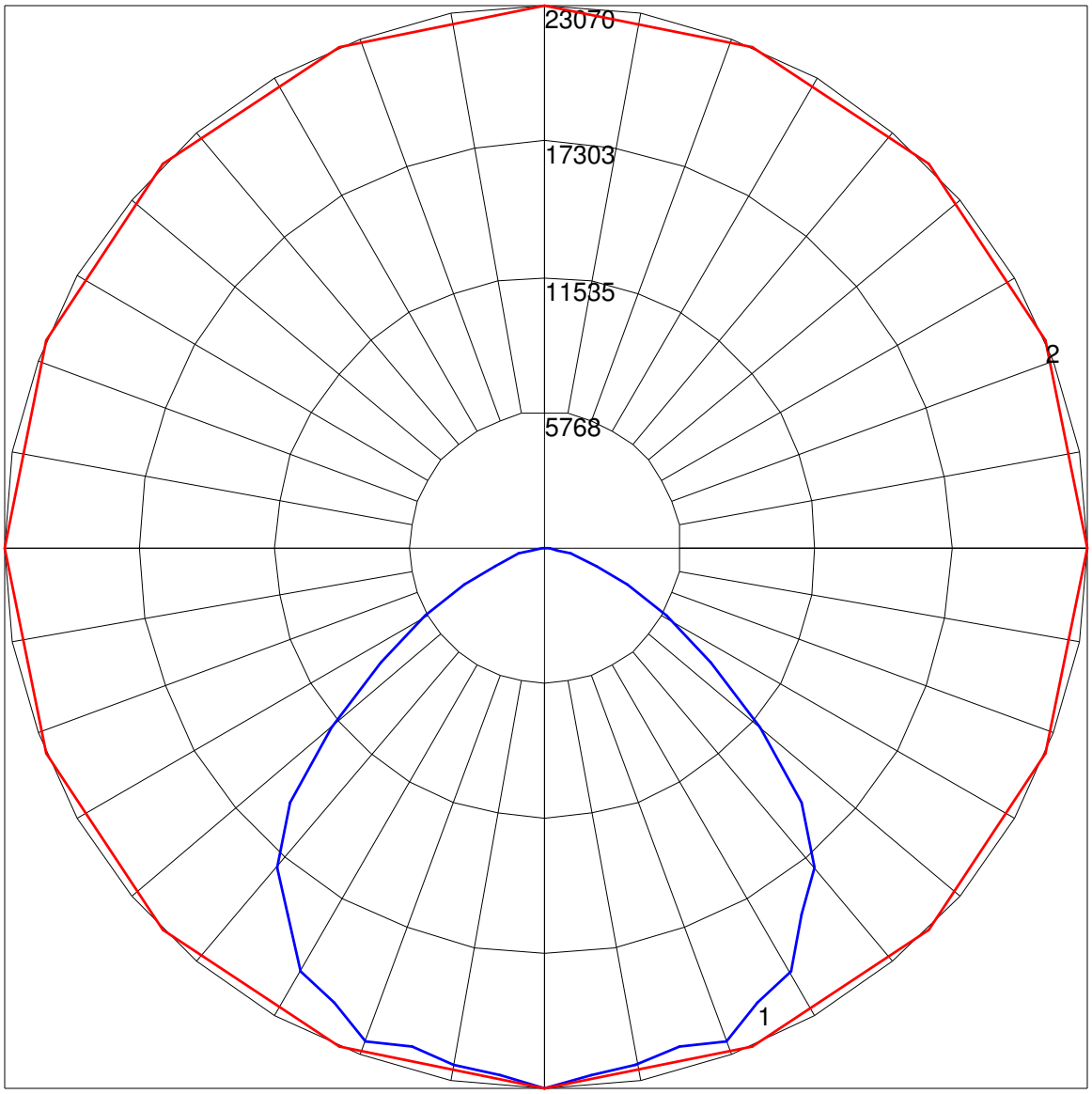
Reflectances											
Ceiling Cavity		70	70	50	50	30	70	70	50	50	30
Walls		50	30	50	30	30	50	30	50	30	30
Floor Cavity		20	20	20	20	20	20	20	20	20	20
Room Size		UGR Viewed Crosswise					UGR Viewed Endwise				
X=2H	Y=2H	17.9	19.1	18.2	19.5	19.8	10.9	10.9	10.9	10.9	10.9
	3H	19.7	20.9	20.1	21.2	21.5	10.9	12.1	11.3	12.4	12.8
	4H	20.2	21.3	20.6	21.6	22.0	11.7	12.7	12.1	13.1	13.5
	6H	20.5	21.5	21.0	21.9	22.3	12.0	13.0	12.4	13.3	13.7
	8H	20.6	21.5	21.0	21.9	22.3	12.0	13.0	12.5	13.4	13.8
	12H	20.6	21.5	21.1	21.9	22.3	12.0	12.9	12.5	13.3	13.7
4H	2H	17.7	18.8	18.1	19.1	19.5	10.9	10.9	10.9	10.9	11.3
	3H	19.6	20.5	20.0	20.9	21.3	11.8	12.7	12.3	13.1	13.5
	4H	20.2	20.9	20.6	21.4	21.8	12.7	13.5	13.1	13.9	14.3
	6H	20.6	21.3	21.1	21.7	22.2	13.1	13.8	13.6	14.2	14.7
	8H	20.7	21.3	21.2	21.8	22.3	13.2	13.8	13.6	14.3	14.7
	12H	20.8	21.3	21.2	21.8	22.3	13.2	13.8	13.7	14.2	14.7
8H	4H	20.1	20.7	20.5	21.2	21.6	13.1	13.8	13.6	14.2	14.7
	6H	20.6	21.1	21.1	21.6	22.1	13.6	14.2	14.1	14.7	15.1
	8H	20.7	21.2	21.2	21.7	22.2	13.8	14.2	14.3	14.7	15.2
	12H	20.8	21.2	21.3	21.7	22.3	13.8	14.2	14.3	14.7	15.3
12H	4H	20.1	20.6	20.5	21.1	21.6	13.2	13.8	13.7	14.3	14.8
	6H	20.5	21.0	21.1	21.5	22.0	13.8	14.2	14.3	14.7	15.3
	8H	20.7	21.1	21.2	21.6	22.2	13.9	14.3	14.4	14.8	15.4

Maximum UGR = 22.3

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-L300-935-ND-DIM-UNV_.IES

POLAR GRAPH



Maximum Candela = 23070.039 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.