H.E. WILLIAMS, INC.

IES INDOOR REPORT
PHOTOMETRIC FILENAME : GL-8-L300-950-DIM-UNV_.IES

DESCRIPTION INFORMATION (From Photometric File)

IESNA:LM-63-2002
[TEST] GEN FROM BALLABS TEST NO. 19438.0
[TESTLAB] BUILDING ACOUSTICS & LIGHTING LABORATORIES, INC
[ISSUEDATE] 2023-07-18
[MANUFAC] WILLIAMS INDOOR
[OTHER] H.E. WILLIAMS, INC - CARTHAGE, MO
[LUMINAIRE] 96 INCH LONG, LOW PROFILE LED HIGHBAY LUMINAIRE
[MORE] WHITE REFLECTOR w/OPEN BOTTOM
[MORE] 0-10V DIMMING DRIVERS
[LUMCAT] GL-8-L300-950-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	25884
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	135
Total Luminaire Watts	192
Ballast Factor	1.00
CIE Type	Direct
Spacing Criterion (0-180)	1.24
Spacing Criterion (90-270)	1.24
Spacing Criterion (Diagonal)	1.42
Basic Luminous Shape	Rectangular
Luminous Length (0-180)	8.00 ft
Luminous Width (90-270)	1.05 ft
Luminous Height	0.00 ft

LUMINANCE DATA (cd/sq.m)

Angle In Degrees	Average 0-Deg	Average 45-Deg	Average 90-Deg
45	12024	12051	12183
55	11101	11585	8733
65	10441	8364	8515
75	8003	5334	4928
85	4390	2841	3231

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-L300-950-DIM-UNV_.IES

CANDELA TABULATION

	0.0	22.5	45.0	67.5	90.0
0	9414.528	9414.528	9414.528	9414.528	9414.528
5	9279.063	9276.470	9279.063	9282.303	9284.896
10	9270.636	9264.155	9270.636	9282.303	9282.303
15	9076.837	9088.503	9114.430	9117.671	9114.430
20	8724.237	8732.663	8747.571	8759.238	8759.238
25	8225.154	8248.488	8265.988	8233.580	8233.580
30	7749.404	7775.979	7755.238	7749.404	7746.163
35	7241.247	7276.247	7252.914	7267.821	7270.414
40	6918.463	6962.538	6926.889	6947.630	6968.371
45	6654.013	6689.014	6668.921	6718.829	6742.163
50	5881.406	5937.148	5990.297	6031.131	5993.538
55	4983.056	5067.965	5200.190	4090.540	3920.073
60	4175.449	4257.765	4261.006	3373.674	3388.582
65	3453.398	3497.473	2766.348	2848.664	2816.256
70	2531.066	2648.383	2164.207	1893.924	1517.991
75	1621.049	1339.099	1080.483	1101.224	998.167
80	901.591	807.608	464.083	322.784	284.542
85	299.450	193.800	193.800	217.134	220.374
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-L300-950-DIM-UNV_.IES

ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixt
0-20	3448.37	N.A.	13.30
0-30	7255.27	N.A.	28.00
0-40	11837.67	N.A.	45.70
0-60	21236.91	N.A.	82.00
0-80	25617.48	N.A.	99.00
0-90	25884.00	N.A.	100.00
10-90	24996.8	N.A.	96.60
20-40	8389.3	N.A.	32.40
20-50	13474.33	N.A.	52.10
40-70	12424.17	N.A.	48.00
60-80	4380.56	N.A.	16.90
70-80	1355.64	N.A.	5.20
80-90	266.52	N.A.	1.00
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	25884.00	N.A.	100.00

Total Luminaire Efficiency = N.A.%

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	887.20
10-20	2561.18
20-30	3806.9
30-40	4582.4
40-50	5085.04
50-60	4314.21
60-70	3024.92
70-80	1355.64
80-90	266.52
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-L300-950-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	109	105	101	97	107	103	99	96	98	95	93	94	92	90	91	89	87	85
2	100	92	85	80	97	90	84	79	86	81	77	83	79	75	80	77	73	71
3	91	81	73	66	89	79	72	66	76	70	65	73	68	64	71	66	62	60
4	83	72	63	56	81	70	62	56	68	61	55	65	59	54	63	58	54	52
5	77	64	55	49	75	63	54	48	61	53	48	59	52	47	57	51	47	45
6	71	58	49	42	69	57	48	42	55	47	42	53	46	41	52	46	41	39
7	66	52	43	37	64	51	43	37	50	42	37	48	42	37	47	41	36	34
8	61	48	39	33	59	47	39	33	46	38	33	44	38	33	43	37	33	31
9	57	44	35	30	56	43	35	30	42	35	30	41	34	30	40	34	29	28
10	53	40	32	27	52	40	32	27	39	32	27	38	31	27	37	31	27	25

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-L300-950-DIM-UNV_.IES

UGR TABLE - CORRECTED

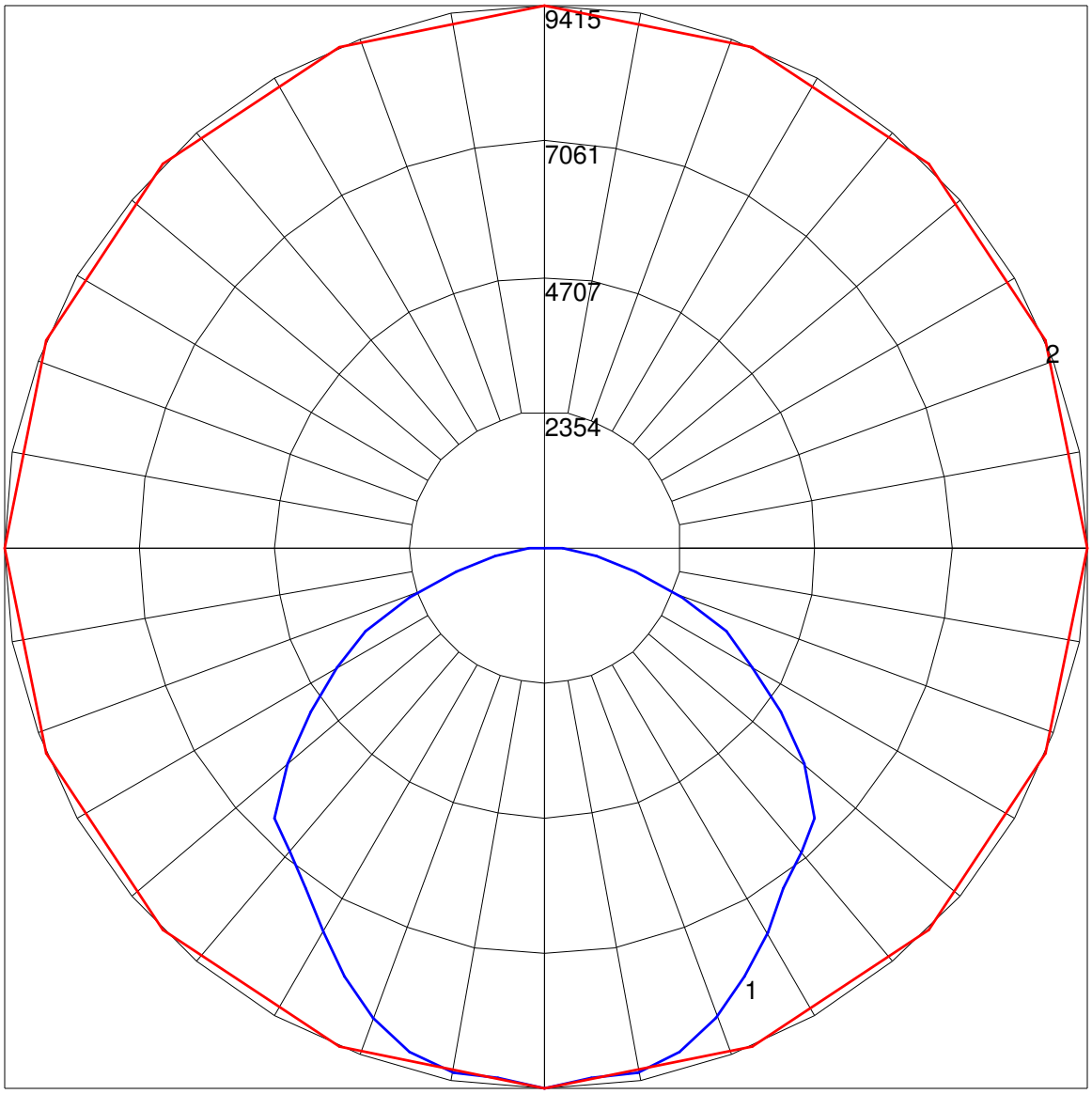
Reflectances											
Ceiling Cavity		70	70	50	50	30	70	70	50	50	30
Walls		50	30	50	30	30	50	30	50	30	30
Floor Cavity		20	20	20	20	20	20	20	20	20	20
Room Size		UGR Viewed Crosswise					UGR Viewed Endwise				
X=2H	Y=2H	20.8	22.4	21.2	22.8	23.1	19.3	20.9	19.6	21.2	21.5
	3H	22.6	24.1	23.0	24.4	24.8	20.7	22.2	21.1	22.5	22.9
	4H	23.1	24.5	23.5	24.8	25.2	21.1	22.5	21.5	22.8	23.2
	6H	23.4	24.7	23.8	25.1	25.5	21.2	22.5	21.6	22.9	23.2
	8H	23.5	24.7	24.0	25.1	25.5	21.2	22.4	21.7	22.8	23.2
	12H	23.6	24.7	24.0	25.1	25.5	21.3	22.4	21.7	22.8	23.2
4H	2H	21.2	22.6	21.6	22.9	23.3	19.9	21.3	20.3	21.7	22.0
	3H	23.2	24.4	23.6	24.8	25.2	21.6	22.8	22.0	23.2	23.6
	4H	23.8	24.8	24.2	25.2	25.7	22.1	23.1	22.5	23.5	24.0
	6H	24.2	25.1	24.7	25.6	26.0	22.2	23.1	22.7	23.6	24.0
	8H	24.4	25.2	24.8	25.6	26.1	22.3	23.1	22.7	23.5	24.0
	12H	24.4	25.2	24.9	25.7	26.1	22.3	23.0	22.8	23.5	24.0
8H	4H	23.9	24.7	24.4	25.2	25.6	22.3	23.1	22.8	23.6	24.1
	6H	24.4	25.1	24.9	25.6	26.1	22.5	23.2	23.0	23.7	24.1
	8H	24.6	25.2	25.1	25.7	26.2	22.5	23.1	23.0	23.7	24.1
	12H	24.7	25.2	25.2	25.7	26.3	22.6	23.2	23.1	23.6	24.2
12H	4H	23.9	24.6	24.4	25.1	25.6	22.3	23.1	22.8	23.6	24.0
	6H	24.4	25.0	24.9	25.5	26.0	22.5	23.1	23.0	23.6	24.1
	8H	24.6	25.1	25.1	25.6	26.2	22.6	23.1	23.1	23.6	24.2

Maximum UGR = 26.3

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-L300-950-DIM-UNV_.IES

POLAR GRAPH



Maximum Candela = 9414.528 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.