H.E. WILLIAMS, INC.

IES INDOOR REPORT
PHOTOMETRIC FILENAME : GL-8-L300-935-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-L300-935-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	24078
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	125
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	11185	11210	11333
55	10327	10776	8124
65	9713	7781	7921
75	7445	4962	4584
85	4084	2643	3005

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-DIM-UNV_.IES

CANDELA TABULATION

	0.0	22.5	45.0	67.5	90.0
0	8757.700	8757.700	8757.700	8757.700	8757.700
5	8631.686	8629.274	8631.686	8634.701	8637.112
10	8623.848	8617.818	8623.848	8634.701	8634.701
15	8443.569	8454.422	8478.539	8481.554	8478.539
20	8115.569	8123.408	8137.275	8148.128	8148.128
25	7651.306	7673.012	7689.291	7659.144	7659.144
30	7208.748	7233.469	7214.175	7208.748	7205.733
35	6736.043	6768.602	6746.896	6760.764	6763.176
40	6435.779	6476.779	6443.617	6462.912	6482.206
45	6189.780	6222.339	6203.647	6250.074	6271.780
50	5471.076	5522.928	5572.369	5610.355	5575.384
55	4635.401	4714.386	4837.386	3805.153	3646.580
60	3884.138	3960.711	3963.726	3138.302	3152.169
65	3212.463	3253.463	2573.347	2649.920	2619.773
70	2354.480	2463.612	2013.216	1761.790	1412.085
75	1507.952	1245.674	1005.101	1024.395	928.527
80	838.689	751.263	431.705	300.264	264.691
85	278.558	180.279	180.279	201.985	205.000
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-DIM-UNV_.IES

ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixt
0-20	3207.79	N.A.	13.30
0-30	6749.09	N.A.	28.00
0-40	11011.79	N.A.	45.70
0-60	19755.27	N.A.	82.00
0-80	23830.21	N.A.	99.00
0-90	24078.14	N.A.	100.00
10-90	23252.84	N.A.	96.60
20-40	7804.00	N.A.	32.40
20-50	12534.27	N.A.	52.10
40-70	11557.37	N.A.	48.00
60-80	4074.94	N.A.	16.90
70-80	1261.06	N.A.	5.20
80-90	247.93	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	24078.14	N.A.	100.00

Total Luminaire Efficiency = N.A.%

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	825.30
10-20	2382.49
20-30	3541.3
30-40	4262.69
40-50	4730.27
50-60	4013.21
60-70	2813.88
70-80	1261.06
80-90	247.93
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-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-L300-935-DIM-UNV_.IES

UGR TABLE - CORRECTED

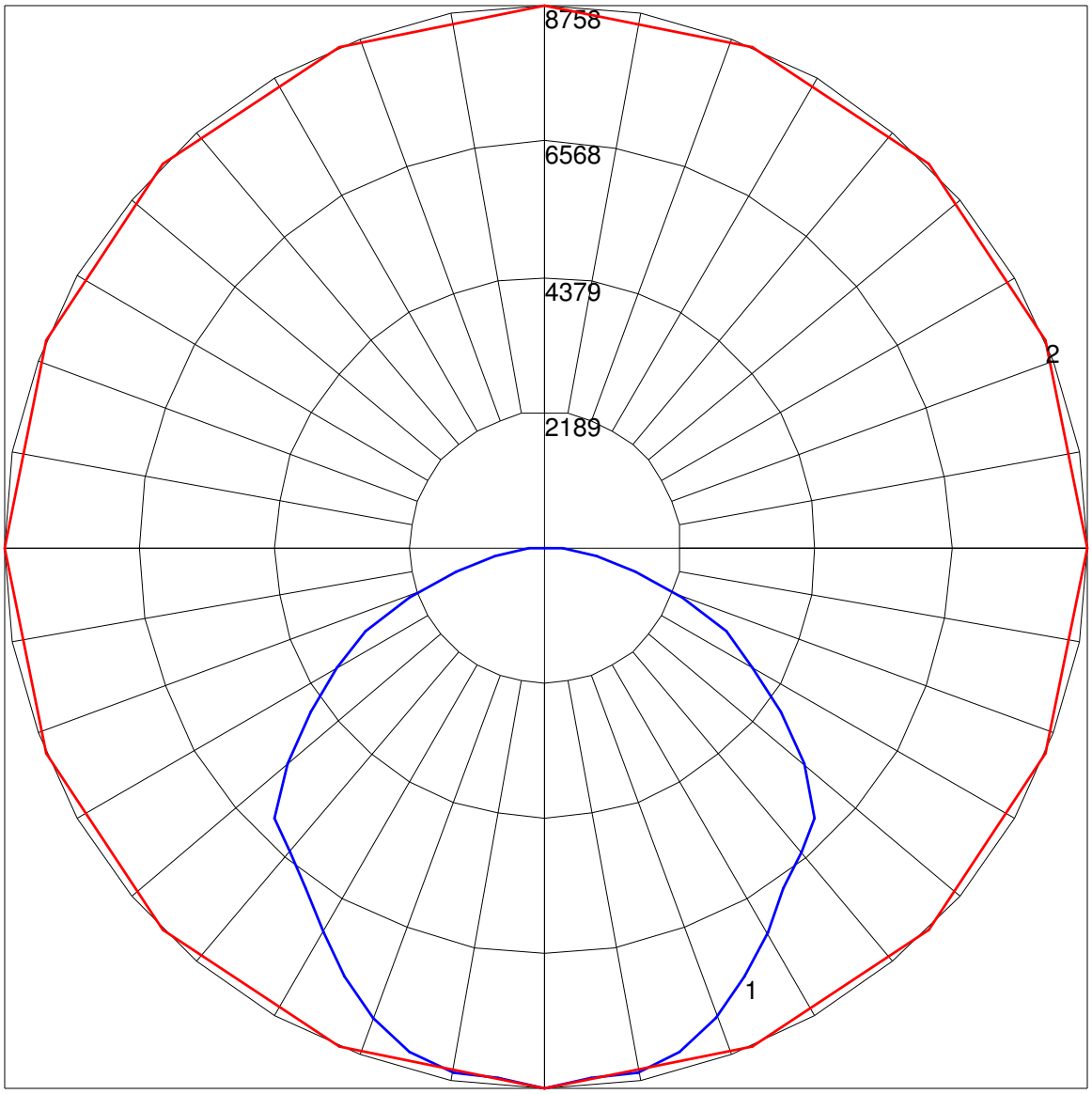
Reflectances											
Ceiling Cavity		70	70	50	50	30	70	70	50	50	30
Walls		50	30	50	30	30	50	30	50	30	30
Floor Cavity		20	20	20	20	20	20	20	20	20	20
Room Size		UGR Viewed Crosswise					UGR Viewed Endwise				
X=2H	Y=2H	20.6	22.2	21.0	22.6	22.9	19.1	20.7	19.4	21.0	21.3
	3H	22.4	23.9	22.8	24.2	24.6	20.5	22.0	20.9	22.3	22.7
	4H	22.9	24.3	23.3	24.6	25.0	20.9	22.3	21.3	22.6	23.0
	6H	23.2	24.5	23.6	24.9	25.3	21.0	22.3	21.4	22.7	23.0
	8H	23.3	24.5	23.8	24.9	25.3	21.0	22.2	21.5	22.6	23.0
	12H	23.4	24.5	23.8	24.9	25.3	21.1	22.2	21.5	22.6	23.0
4H	2H	21.0	22.4	21.4	22.7	23.1	19.7	21.1	20.1	21.5	21.8
	3H	23.0	24.2	23.4	24.6	25.0	21.4	22.6	21.8	23.0	23.4
	4H	23.6	24.6	24.0	25.0	25.5	21.9	22.9	22.3	23.3	23.8
	6H	24.0	24.9	24.5	25.4	25.8	22.0	22.9	22.5	23.4	23.8
	8H	24.2	25.0	24.6	25.4	25.9	22.1	22.9	22.5	23.3	23.8
	12H	24.2	25.0	24.7	25.5	25.9	22.1	22.8	22.6	23.3	23.8
8H	4H	23.7	24.5	24.2	25.0	25.4	22.1	22.9	22.6	23.4	23.9
	6H	24.2	24.9	24.7	25.4	25.9	22.3	23.0	22.8	23.5	23.9
	8H	24.4	25.0	24.9	25.5	26.0	22.3	22.9	22.8	23.5	23.9
	12H	24.5	25.0	25.0	25.5	26.1	22.4	23.0	22.9	23.4	24.0
12H	4H	23.7	24.4	24.2	24.9	25.4	22.1	22.9	22.6	23.4	23.8
	6H	24.2	24.8	24.7	25.3	25.8	22.3	22.9	22.8	23.4	23.9
	8H	24.4	24.9	24.9	25.4	26.0	22.4	22.9	22.9	23.4	24.0

Maximum UGR = 26.1

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-DIM-UNV_.IES

POLAR GRAPH



Maximum Candela = 8757.7 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.