H.E. WILLIAMS, INC.

IES INDOOR REPORT
PHOTOMETRIC FILENAME : GL-8-L800-840-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-L800-840-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	80369
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	151
Total Luminaire Watts	534
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	37335	37418	37829
55	34468	35970	27116
65	32420	25970	26439
75	24849	16563	15301
85	13631	8822	10032

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-L800-840-DIM-UNV_.IES

CANDELA TABULATION

	0.0	22.5	45.0	67.5	90.0
0	29231.85	29231.85	29231.85	29231.85	29231.854
5	28811.23	28803.18	28811.23	28821.30	28829.350
10	28785.07	28764.94	28785.07	28821.30	28821.300
15	28183.33	28219.55	28300.05	28310.12	28300.057
20	27088.52	27114.68	27160.97	27197.19	27197.196
25	25538.88	25611.33	25665.66	25565.04	25565.043
30	24061.69	24144.20	24079.80	24061.69	24051.627
35	22483.87	22592.55	22520.10	22566.38	22574.438
40	21481.63	21618.49	21507.80	21572.20	21636.603
45	20660.53	20769.20	20706.81	20861.78	20934.234
50	18261.60	18434.68	18599.71	18726.49	18609.773
55	15472.25	15735.89	16146.44	12701.01	12171.721
60	12964.65	13220.24	13230.30	10475.16	10521.455
65	10722.70	10859.55	8589.436	8845.026	8744.400
70	7858.891	8223.157	6719.805	5880.584	4713.322
75	5033.313	4157.866	3354.871	3419.272	3099.281
80	2799.415	2507.600	1440.964	1002.235	883.496
85	929.784	601.744	601.744	674.194	684.257
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-L800-840-DIM-UNV_.IES

ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixt
0-20	10707.11	N.A.	13.30
0-30	22527.43	N.A.	28.00
0-40	36755.65	N.A.	45.70
0-60	65940.04	N.A.	82.00
0-80	79541.57	N.A.	99.00
0-90	80369.12	N.A.	100.00
10-90	77614.4	N.A.	96.60
20-40	26048.54	N.A.	32.40
20-50	41837.45	N.A.	52.10
40-70	38576.7	N.A.	48.00
60-80	13601.53	N.A.	16.90
70-80	4209.22	N.A.	5.20
80-90	827.55	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	80369.12	N.A.	100.00

Total Luminaire Efficiency = N.A.%

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	2754.73
10-20	7952.38
20-30	11820.32
30-40	14228.22
40-50	15788.91
50-60	13395.49
60-70	9392.3
70-80	4209.22
80-90	827.55
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-L800-840-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-L800-840-DIM-UNV_.IES

UGR TABLE - CORRECTED

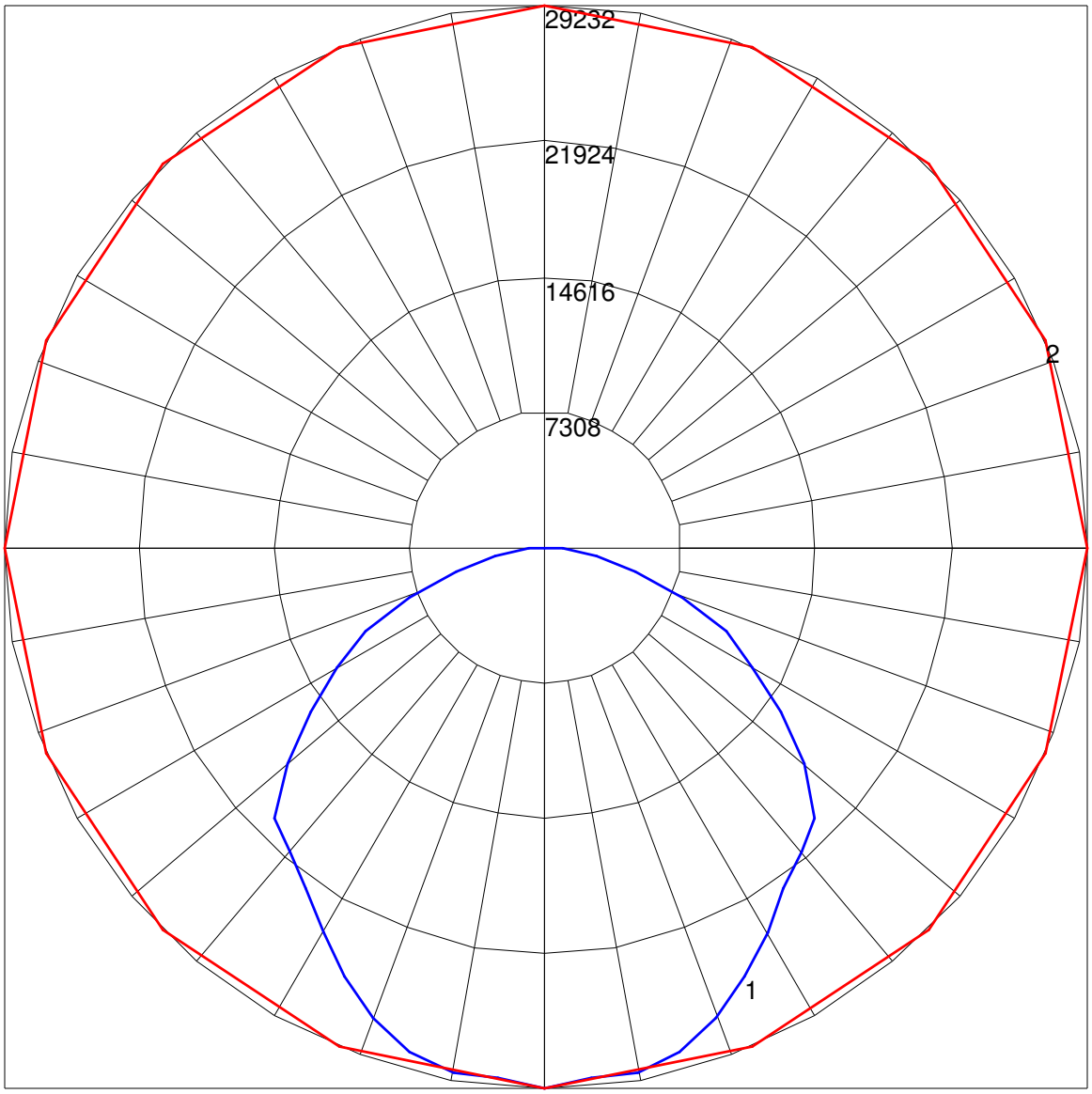
Reflectances											
Ceiling Cavity		70	70	50	50	30	70	70	50	50	30
Walls		50	30	50	30	30	50	30	50	30	30
Floor Cavity		20	20	20	20	20	20	20	20	20	20
Room Size		UGR Viewed Crosswise					UGR Viewed Endwise				
X=2H	Y=2H	24.7	26.3	25.1	26.7	27.0	23.2	24.8	23.5	25.1	25.4
	3H	26.5	28.0	26.9	28.3	28.7	24.6	26.1	25.0	26.4	26.8
	4H	27.0	28.4	27.4	28.7	29.1	25.0	26.4	25.4	26.7	27.1
	6H	27.3	28.6	27.7	29.0	29.4	25.1	26.4	25.5	26.8	27.1
	8H	27.4	28.6	27.9	29.0	29.4	25.1	26.3	25.6	26.7	27.1
	12H	27.5	28.6	27.9	29.0	29.4	25.2	26.3	25.6	26.7	27.1
4H	2H	25.1	26.5	25.5	26.8	27.2	23.8	25.2	24.2	25.6	25.9
	3H	27.1	28.3	27.5	28.7	29.1	25.5	26.7	25.9	27.1	27.5
	4H	27.7	28.7	28.1	29.1	29.6	26.0	27.0	26.4	27.4	27.9
	6H	28.1	29.0	28.6	29.5	29.9	26.1	27.0	26.6	27.5	27.9
	8H	28.3	29.1	28.7	29.5	30.0	26.2	27.0	26.6	27.4	27.9
	12H	28.3	29.1	28.8	29.6	30.0	26.2	26.9	26.7	27.4	27.9
8H	4H	27.8	28.6	28.3	29.1	29.5	26.2	27.0	26.7	27.5	28.0
	6H	28.3	29.0	28.8	29.5	30.0	26.4	27.1	26.9	27.6	28.0
	8H	28.5	29.1	29.0	29.6	30.1	26.4	27.0	26.9	27.6	28.0
	12H	28.6	29.1	29.1	29.6	30.2	26.5	27.1	27.0	27.5	28.1
12H	4H	27.8	28.5	28.3	29.0	29.5	26.2	27.0	26.7	27.5	27.9
	6H	28.3	28.9	28.8	29.4	29.9	26.4	27.0	26.9	27.5	28.0
	8H	28.5	29.0	29.0	29.5	30.1	26.5	27.0	27.0	27.5	28.1

Maximum UGR = 30.2

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-L800-840-DIM-UNV_.IES

POLAR GRAPH



Maximum Candela = 29231.854 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.