H.E. WILLIAMS, INC.

IES INDOOR REPORT
PHOTOMETRIC FILENAME : GL-8-L800-830-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-L800-830-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	77154
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	144
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	35841	35922	36316
55	33090	34531	26031
65	31123	24931	25381
75	23855	15900	14689
85	13086	8469	9631

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-L800-830-DIM-UNV_.IES

CANDELA TABULATION

	0.0	22.5	45.0	67.5	90.0
0	28062.590	28062.590	28062.590	28062.590	28062.590
5	27658.798	27651.070	27658.798	27668.458	27676.186
10	27633.681	27614.361	27633.681	27668.458	27668.458
15	27056.007	27090.784	27168.065	27177.725	27168.065
20	26004.989	26030.105	26074.541	26109.318	26109.318
25	24517.333	24586.886	24639.050	24542.449	24542.449
30	23099.231	23178.443	23116.619	23099.231	23089.570
35	21584.527	21688.856	21619.303	21663.740	21671.468
40	20622.381	20753.758	20647.497	20709.322	20771.146
45	19834.117	19938.446	19878.553	20027.319	20096.872
50	17531.149	17697.303	17855.728	17977.446	17865.388
55	14853.369	15106.464	15500.596	12192.978	11684.857
60	12446.073	12691.439	12701.099	10056.164	10100.600
65	10293.802	10425.180	8245.861	8491.228	8394.627
70	7544.538	7894.234	6451.015	5645.362	4524.791
75	4831.982	3991.553	3220.677	3282.502	2975.311
80	2687.440	2407.297	1383.326	962.146	848.157
85	892.593	577.674	577.674	647.227	656.887
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-L800-830-DIM-UNV_.IES

ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixt
0-20	10278.83	N.A.	13.30
0-30	21626.34	N.A.	28.00
0-40	35285.43	N.A.	45.70
0-60	63302.46	N.A.	82.00
0-80	76359.94	N.A.	99.00
0-90	77154.38	N.A.	100.00
10-90	74509.84	N.A.	96.60
20-40	25006.6	N.A.	32.40
20-50	40163.96	N.A.	52.10
40-70	37033.65	N.A.	48.00
60-80	13057.47	N.A.	16.90
70-80	4040.86	N.A.	5.20
80-90	794.45	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	77154.38	N.A.	100.00

Total Luminaire Efficiency = N.A.%

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	2644.54
10-20	7634.29
20-30	11347.51
30-40	13659.09
40-50	15157.36
50-60	12859.68
60-70	9016.61
70-80	4040.86
80-90	794.45
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-L800-830-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-L800-830-DIM-UNV_.IES

UGR TABLE - CORRECTED

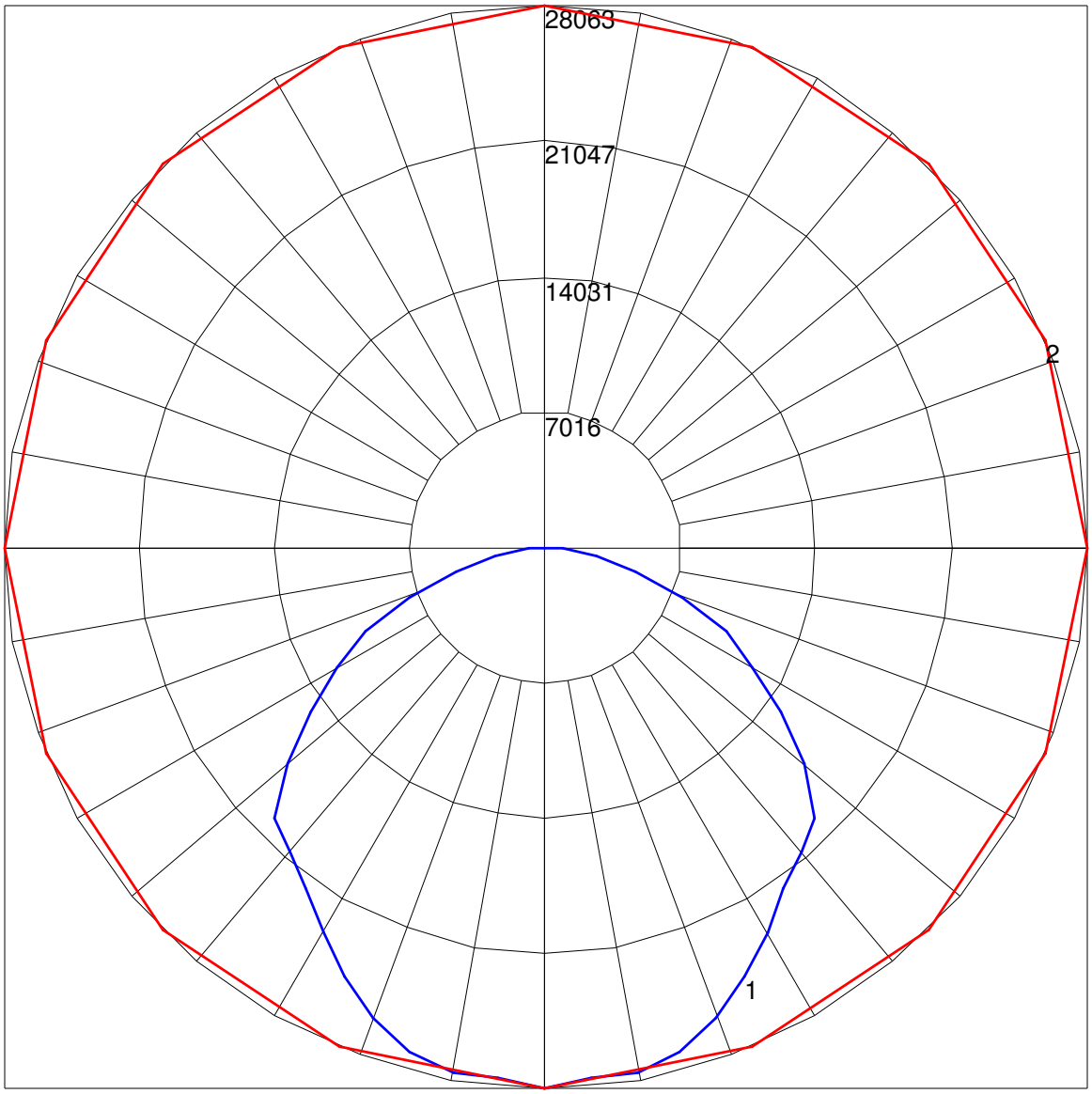
Reflectances											
Ceiling Cavity		70	70	50	50	30	70	70	50	50	30
Walls		50	30	50	30	30	50	30	50	30	30
Floor Cavity		20	20	20	20	20	20	20	20	20	20
Room Size		UGR Viewed Crosswise					UGR Viewed Endwise				
X=2H	Y=2H	24.6	26.2	25.0	26.6	26.9	23.1	24.7	23.4	25.0	25.3
	3H	26.4	27.9	26.8	28.2	28.6	24.5	26.0	24.9	26.3	26.7
	4H	26.9	28.3	27.3	28.6	29.0	24.9	26.3	25.3	26.6	27.0
	6H	27.2	28.5	27.6	28.9	29.3	25.0	26.3	25.4	26.7	27.0
	8H	27.3	28.5	27.8	28.9	29.3	25.0	26.2	25.5	26.6	27.0
	12H	27.4	28.5	27.8	28.9	29.3	25.1	26.2	25.5	26.6	27.0
4H	2H	25.0	26.4	25.4	26.7	27.1	23.7	25.1	24.1	25.5	25.8
	3H	27.0	28.2	27.4	28.6	29.0	25.4	26.6	25.8	27.0	27.4
	4H	27.6	28.6	28.0	29.0	29.5	25.9	26.9	26.3	27.3	27.8
	6H	28.0	28.9	28.5	29.4	29.8	26.0	26.9	26.5	27.4	27.8
	8H	28.2	29.0	28.6	29.4	29.9	26.1	26.9	26.5	27.3	27.8
	12H	28.2	29.0	28.7	29.5	29.9	26.1	26.8	26.6	27.3	27.8
8H	4H	27.7	28.5	28.2	29.0	29.4	26.1	26.9	26.6	27.4	27.9
	6H	28.2	28.9	28.7	29.4	29.9	26.3	27.0	26.8	27.5	27.9
	8H	28.4	29.0	28.9	29.5	30.0	26.3	26.9	26.8	27.5	27.9
	12H	28.5	29.0	29.0	29.5	30.1	26.4	27.0	26.9	27.4	28.0
12H	4H	27.7	28.4	28.2	28.9	29.4	26.1	26.9	26.6	27.4	27.8
	6H	28.2	28.8	28.7	29.3	29.8	26.3	26.9	26.8	27.4	27.9
	8H	28.4	28.9	28.9	29.4	30.0	26.4	26.9	26.9	27.4	28.0

Maximum UGR = 30.1

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-L800-830-DIM-UNV_.IES

POLAR GRAPH



Maximum Candela = 28062.59 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.