H.E. WILLIAMS, INC.

IES INDOOR REPORT
PHOTOMETRIC FILENAME : GL-8-L300-940-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-L300-940-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	24981
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	130
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	11605	11631	11758
55	10714	11181	8428
65	10077	8072	8218
75	7724	5148	4756
85	4237	2742	3118

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CANDELA TABULATION

	0.0	22.5	45.0	67.5	90.0
0	9086.113	9086.113	9086.113	9086.113	9086.113
5	8955.373	8952.871	8955.373	8958.501	8961.003
10	8947.241	8940.986	8947.241	8958.501	8958.501
15	8760.202	8771.462	8796.484	8799.611	8796.484
20	8419.903	8428.035	8442.422	8453.682	8453.682
25	7938.229	7960.749	7977.639	7946.361	7946.361
30	7479.075	7504.723	7484.705	7479.075	7475.948
35	6988.644	7022.424	6999.904	7014.292	7016.794
40	6677.120	6719.658	6685.253	6705.270	6725.288
45	6421.896	6455.676	6436.284	6484.451	6506.971
50	5676.240	5730.038	5781.333	5820.742	5784.461
55	4809.228	4891.175	5018.787	3947.846	3783.326
60	4029.793	4109.238	4112.366	3255.988	3270.375
65	3332.930	3375.468	2669.847	2749.292	2718.015
70	2442.773	2555.997	2088.711	1827.857	1465.038
75	1564.500	1292.386	1042.792	1062.809	963.347
80	870.140	779.435	447.894	311.524	274.616
85	289.004	187.039	187.039	209.559	212.687
90	0.000	0.000	0.000	0.000	0.000

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ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixt
0-20	3328.08	N.A.	13.30
0-30	7002.18	N.A.	28.00
0-40	11424.73	N.A.	45.70
0-60	20496.09	N.A.	82.00
0-80	24723.84	N.A.	99.00
0-90	24981.07	N.A.	100.00
10-90	24124.82	N.A.	96.60
20-40	8096.65	N.A.	32.40
20-50	13004.3	N.A.	52.10
40-70	11990.77	N.A.	48.00
60-80	4227.75	N.A.	16.90
70-80	1308.35	N.A.	5.20
80-90	257.23	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	24981.07	N.A.	100.00

Total Luminaire Efficiency = N.A.%

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	856.25
10-20	2471.83
20-30	3674.1
30-40	4422.54
40-50	4907.65
50-60	4163.71
60-70	2919.4
70-80	1308.35
80-90	257.23
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

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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

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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	20.7	22.3	21.1	22.7	23.0	19.2	20.8	19.5	21.1	21.4
	3H	22.5	24.0	22.9	24.3	24.7	20.6	22.1	21.0	22.4	22.8
	4H	23.0	24.4	23.4	24.7	25.1	21.0	22.4	21.4	22.7	23.1
	6H	23.3	24.6	23.7	25.0	25.4	21.1	22.4	21.5	22.8	23.1
	8H	23.4	24.6	23.9	25.0	25.4	21.1	22.3	21.6	22.7	23.1
	12H	23.5	24.6	23.9	25.0	25.4	21.2	22.3	21.6	22.7	23.1
4H	2H	21.1	22.5	21.5	22.8	23.2	19.8	21.2	20.2	21.6	21.9
	3H	23.1	24.3	23.5	24.7	25.1	21.5	22.7	21.9	23.1	23.5
	4H	23.7	24.7	24.1	25.1	25.6	22.0	23.0	22.4	23.4	23.9
	6H	24.1	25.0	24.6	25.5	25.9	22.1	23.0	22.6	23.5	23.9
	8H	24.3	25.1	24.7	25.5	26.0	22.2	23.0	22.6	23.4	23.9
	12H	24.3	25.1	24.8	25.6	26.0	22.2	22.9	22.7	23.4	23.9
8H	4H	23.8	24.6	24.3	25.1	25.5	22.2	23.0	22.7	23.5	24.0
	6H	24.3	25.0	24.8	25.5	26.0	22.4	23.1	22.9	23.6	24.0
	8H	24.5	25.1	25.0	25.6	26.1	22.4	23.0	22.9	23.6	24.0
	12H	24.6	25.1	25.1	25.6	26.2	22.5	23.1	23.0	23.5	24.1
12H	4H	23.8	24.5	24.3	25.0	25.5	22.2	23.0	22.7	23.5	23.9
	6H	24.3	24.9	24.8	25.4	25.9	22.4	23.0	22.9	23.5	24.0
	8H	24.5	25.0	25.0	25.5	26.1	22.5	23.0	23.0	23.5	24.1

Maximum UGR = 26.2

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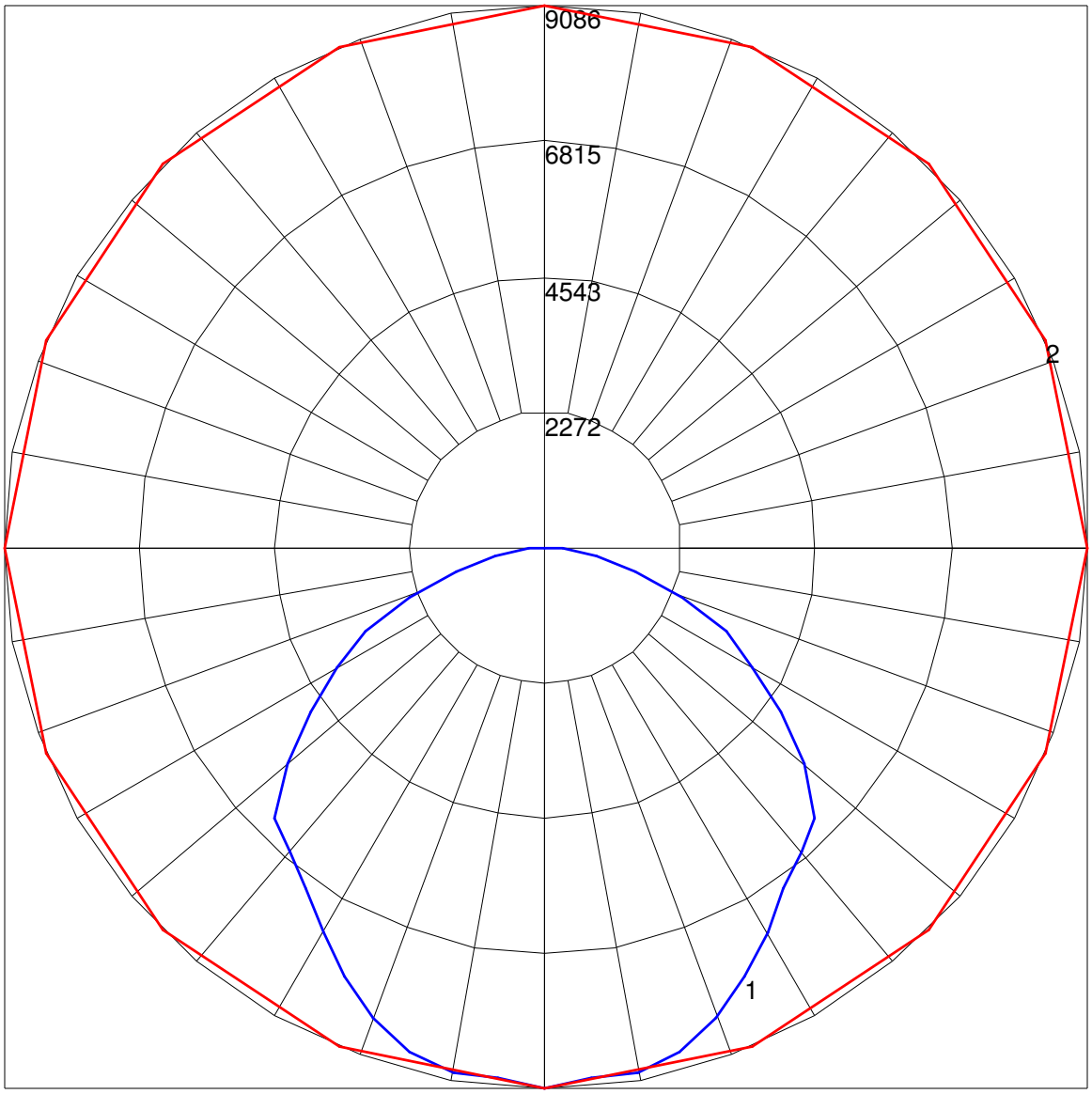
POLAR GRAPH



Maximum Candela = 9086.113 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.)

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