H.E. WILLIAMS, INC.

IES INDOOR REPORT
PHOTOMETRIC FILENAME : GL-8-L300-850-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-L300-850-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	31001
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	161
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	14401	14433	14592
55	13295	13875	10459
65	12505	10017	10198
75	9585	6389	5902
85	5258	3403	3870

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CANDELA TABULATION

	0.0	22.5	45.0	67.5	90.0
0	11275.540	11275.540	11275.540	11275.540	11275.540
5	11113.296	11110.191	11113.296	11117.177	11120.283
10	11103.204	11095.441	11103.204	11117.177	11117.177
15	10871.095	10885.068	10916.120	10920.001	10916.120
20	10448.796	10458.888	10476.742	10490.715	10490.715
25	9851.057	9879.003	9899.963	9861.148	9861.148
30	9281.263	9313.091	9288.250	9281.263	9277.382
35	8672.656	8714.575	8686.629	8704.484	8707.589
40	8286.066	8338.853	8296.158	8320.999	8345.840
45	7969.342	8011.261	7987.196	8046.970	8074.916
50	7044.010	7110.771	7174.426	7223.332	7178.307
55	5968.079	6069.772	6228.134	4899.135	4694.972
60	5000.828	5099.416	5103.298	4040.563	4058.418
65	4136.046	4188.834	3313.184	3411.773	3372.958
70	3031.393	3171.900	2592.016	2268.305	1818.059
75	1941.489	1603.805	1294.067	1318.908	1195.479
80	1079.812	967.251	555.820	386.590	340.789
85	358.644	232.109	232.109	260.055	263.937
90	0.000	0.000	0.000	0.000	0.000

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ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixt
0-20	4130.03	N.A.	13.30
0-30	8689.46	N.A.	28.00
0-40	14177.67	N.A.	45.70
0-60	25434.91	N.A.	82.00
0-80	30681.4	N.A.	99.00
0-90	31000.61	N.A.	100.00
10-90	29938.03	N.A.	96.60
20-40	10047.64	N.A.	32.40
20-50	16137.87	N.A.	52.10
40-70	14880.11	N.A.	48.00
60-80	5246.49	N.A.	16.90
70-80	1623.61	N.A.	5.20
80-90	319.21	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	31000.61	N.A.	100.00

Total Luminaire Efficiency = N.A.%

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	1062.58
10-20	3067.45
20-30	4559.43
30-40	5488.22
40-50	6090.22
50-60	5167.01
60-70	3622.87
70-80	1623.61
80-90	319.21
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	21.4	23.0	21.8	23.4	23.7	19.9	21.5	20.2	21.8	22.1
	3H	23.2	24.7	23.6	25.0	25.4	21.3	22.8	21.7	23.1	23.5
	4H	23.7	25.1	24.1	25.4	25.8	21.7	23.1	22.1	23.4	23.8
	6H	24.0	25.3	24.4	25.7	26.1	21.8	23.1	22.2	23.5	23.8
	8H	24.1	25.3	24.6	25.7	26.1	21.8	23.0	22.3	23.4	23.8
	12H	24.2	25.3	24.6	25.7	26.1	21.9	23.0	22.3	23.4	23.8
4H	2H	21.8	23.2	22.2	23.5	23.9	20.5	21.9	20.9	22.3	22.6
	3H	23.8	25.0	24.2	25.4	25.8	22.2	23.4	22.6	23.8	24.2
	4H	24.4	25.4	24.8	25.8	26.3	22.7	23.7	23.1	24.1	24.6
	6H	24.8	25.7	25.3	26.2	26.6	22.8	23.7	23.3	24.2	24.6
	8H	25.0	25.8	25.4	26.2	26.7	22.9	23.7	23.3	24.1	24.6
	12H	25.0	25.8	25.5	26.3	26.7	22.9	23.6	23.4	24.1	24.6
8H	4H	24.5	25.3	25.0	25.8	26.2	22.9	23.7	23.4	24.2	24.7
	6H	25.0	25.7	25.5	26.2	26.7	23.1	23.8	23.6	24.3	24.7
	8H	25.2	25.8	25.7	26.3	26.8	23.1	23.7	23.6	24.3	24.7
	12H	25.3	25.8	25.8	26.3	26.9	23.2	23.8	23.7	24.2	24.8
12H	4H	24.5	25.2	25.0	25.7	26.2	22.9	23.7	23.4	24.2	24.6
	6H	25.0	25.6	25.5	26.1	26.6	23.1	23.7	23.6	24.2	24.7
	8H	25.2	25.7	25.7	26.2	26.8	23.2	23.7	23.7	24.2	24.8

Maximum UGR = 26.9

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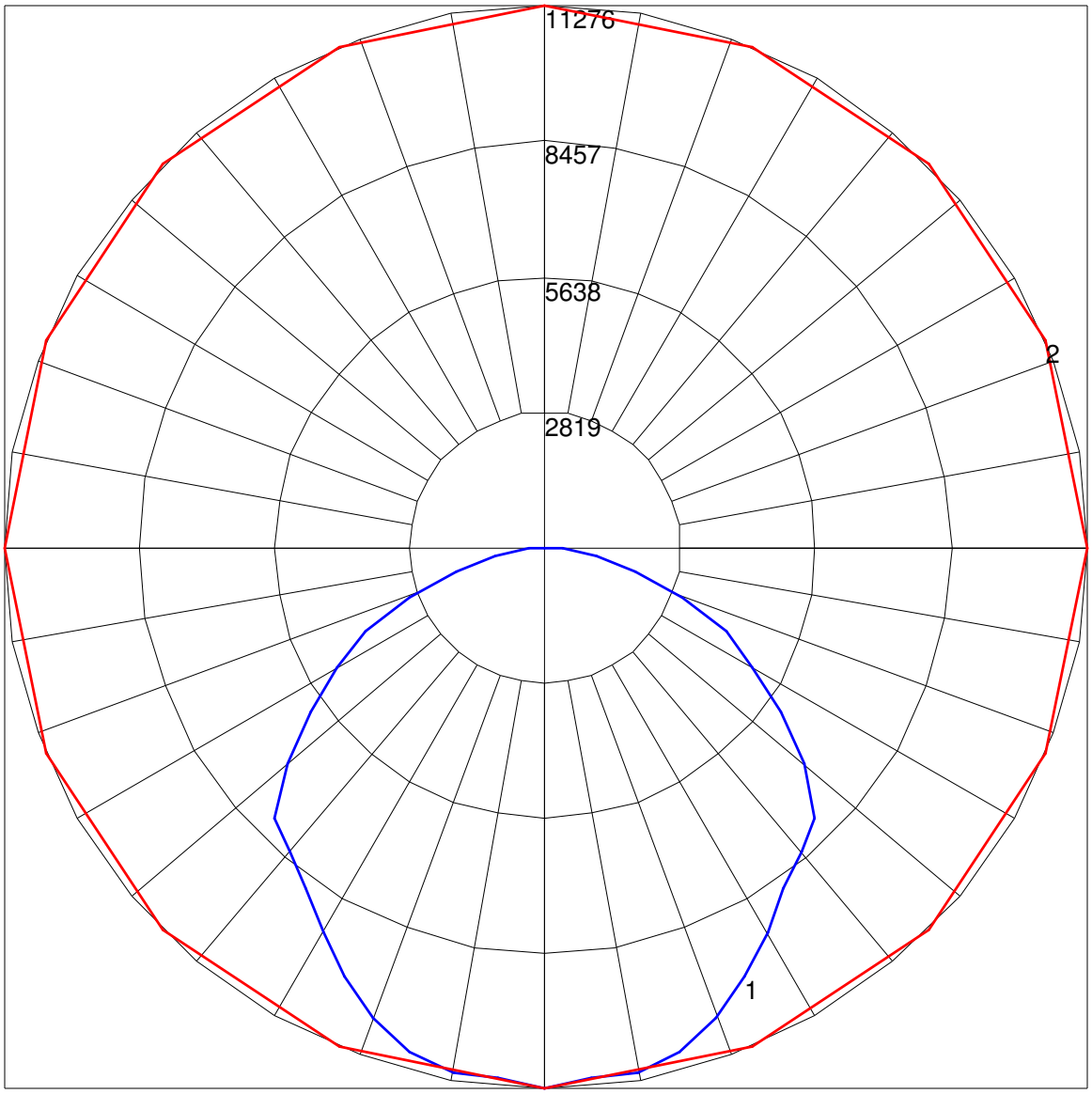
POLAR GRAPH



Maximum Candela = 11275.54 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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