H.E. WILLIAMS, INC.

IES INDOOR REPORT
PHOTOMETRIC FILENAME : GL-8-L300-835-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-L300-835-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	29195
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	152
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	13562	13593	13742
55	12521	13066	9850
65	11777	9434	9604
75	9027	6017	5558
85	4952	3205	3644

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CANDELA TABULATION

	0.0	22.5	45.0	67.5	90.0
0	10618.712	10618.712	10618.712	10618.712	10618.712
5	10465.919	10462.995	10465.919	10469.575	10472.499
10	10456.416	10449.105	10456.416	10469.575	10469.575
15	10237.827	10250.986	10280.229	10283.884	10280.229
20	9840.128	9849.632	9866.446	9879.606	9879.606
25	9277.208	9303.527	9323.266	9286.712	9286.712
30	8740.607	8770.581	8747.187	8740.607	8736.952
35	8167.453	8206.930	8180.612	8197.426	8200.350
40	7803.382	7853.095	7812.886	7836.280	7859.674
45	7505.108	7544.586	7521.923	7578.215	7604.533
50	6633.679	6696.551	6756.498	6802.555	6760.153
55	5620.424	5716.193	5865.330	4613.748	4421.478
60	4709.517	4802.363	4806.018	3805.191	3822.005
65	3895.112	3944.824	3120.183	3213.028	3176.475
70	2854.807	2987.130	2441.024	2136.170	1712.153
75	1828.392	1510.379	1218.685	1242.079	1125.839
80	1016.911	910.906	523.442	364.070	320.937
85	337.752	218.588	218.588	244.907	248.562
90	0.000	0.000	0.000	0.000	0.000

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ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixt
0-20	3889.45	N.A.	13.30
0-30	8183.27	N.A.	28.00
0-40	13351.79	N.A.	45.70
0-60	23953.26	N.A.	82.00
0-80	28894.13	N.A.	99.00
0-90	29194.75	N.A.	100.00
10-90	28194.07	N.A.	96.60
20-40	9462.34	N.A.	32.40
20-50	15197.8	N.A.	52.10
40-70	14013.3	N.A.	48.00
60-80	4940.87	N.A.	16.90
70-80	1529.03	N.A.	5.20
80-90	300.62	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	29194.75	N.A.	100.00

Total Luminaire Efficiency = N.A.%

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	1000.68
10-20	2888.77
20-30	4293.83
30-40	5168.52
40-50	5735.45
50-60	4866.02
60-70	3411.83
70-80	1529.03
80-90	300.62
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	21.2	22.8	21.6	23.2	23.5	19.7	21.3	20.0	21.6	21.9
	3H	23.0	24.5	23.4	24.8	25.2	21.1	22.6	21.5	22.9	23.3
	4H	23.5	24.9	23.9	25.2	25.6	21.5	22.9	21.9	23.2	23.6
	6H	23.8	25.1	24.2	25.5	25.9	21.6	22.9	22.0	23.3	23.6
	8H	23.9	25.1	24.4	25.5	25.9	21.6	22.8	22.1	23.2	23.6
	12H	24.0	25.1	24.4	25.5	25.9	21.7	22.8	22.1	23.2	23.6
4H	2H	21.6	23.0	22.0	23.3	23.7	20.3	21.7	20.7	22.1	22.4
	3H	23.6	24.8	24.0	25.2	25.6	22.0	23.2	22.4	23.6	24.0
	4H	24.2	25.2	24.6	25.6	26.1	22.5	23.5	22.9	23.9	24.4
	6H	24.6	25.5	25.1	26.0	26.4	22.6	23.5	23.1	24.0	24.4
	8H	24.8	25.6	25.2	26.0	26.5	22.7	23.5	23.1	23.9	24.4
	12H	24.8	25.6	25.3	26.1	26.5	22.7	23.4	23.2	23.9	24.4
8H	4H	24.3	25.1	24.8	25.6	26.0	22.7	23.5	23.2	24.0	24.5
	6H	24.8	25.5	25.3	26.0	26.5	22.9	23.6	23.4	24.1	24.5
	8H	25.0	25.6	25.5	26.1	26.6	22.9	23.5	23.4	24.1	24.5
	12H	25.1	25.6	25.6	26.1	26.7	23.0	23.6	23.5	24.0	24.6
12H	4H	24.3	25.0	24.8	25.5	26.0	22.7	23.5	23.2	24.0	24.4
	6H	24.8	25.4	25.3	25.9	26.4	22.9	23.5	23.4	24.0	24.5
	8H	25.0	25.5	25.5	26.0	26.6	23.0	23.5	23.5	24.0	24.6

Maximum UGR = 26.7

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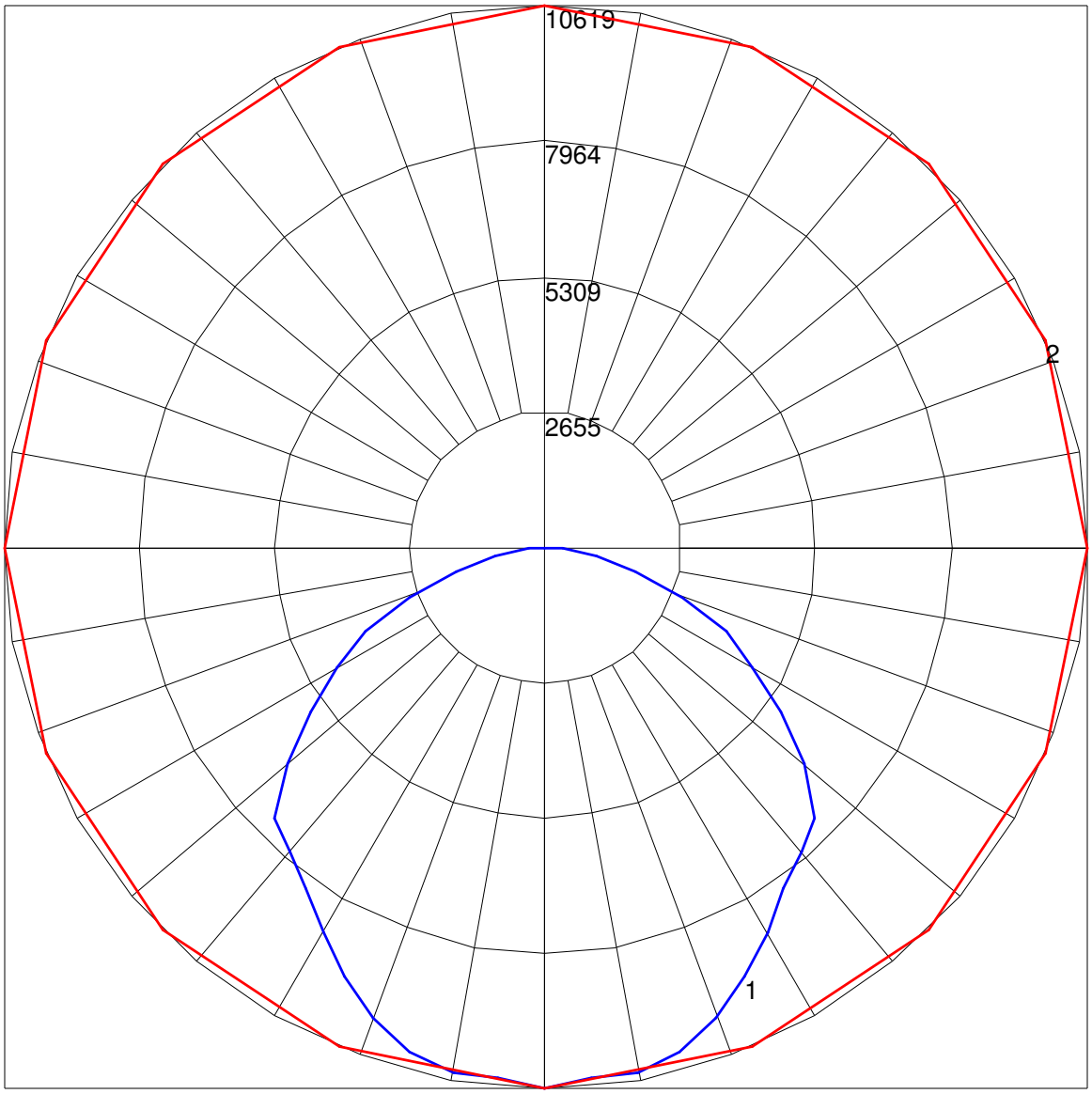
POLAR GRAPH



Maximum Candela = 10618.712 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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