H.E. WILLIAMS, INC.

IES INDOOR REPORT
PHOTOMETRIC FILENAME : GL-8-L300-835-SAF118-DIM-UNV_.IES

DESCRIPTION INFORMATION (From Photometric File)

IESNA:LM-63-2002
[TEST] GEN FROM BALLABS TEST NO. 19726.0
[TESTLAB] BUILDING ACOUSTICS & LIGHTING LABORATORIES, INC
[ISSUEDATE] 2023-07-20
[MANUFAC] WILLIAMS INDOOR
[OTHER] H.E. WILLIAMS, INC - CARTHAGE, MO
[LUMINAIRE] 96 INCH LOW PROFILE LED HIGHBAY LUMINAIRE
[MORE] WHITE REFLECTOR w/.118"THK FROSTED ACRYLIC LENS
[MORE] 0-10V LED DRIVERS
[LUMCAT] GL-8-L300-835-SAF118-DIM-UNV
[LAMPCAT] 22 INCH HLM LED ARRAYS
[_SEARCH_SOURCETYPE] LED
[_SEARCH_APPLICATION] Indoor, Commercial, Industrial, Manufacturing, High Bay
[_SEARCH_MOUNTING] Cable, Pendant, Suspended

CHARACTERISTICS

Lumens Per Lamp	N.A. (absolute)
Total Lamp Lumens	N.A. (absolute)
Luminaire Lumens	26363
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	137
Total Luminaire Watts	192
Ballast Factor	1.00
CIE Type	Direct
Spacing Criterion (0-180)	1.32
Spacing Criterion (90-270)	1.26
Spacing Criterion (Diagonal)	1.38
Basic Luminous Shape	Rectangular
Luminous Length (0-180)	8.00 ft
Luminous Width (90-270)	1.00 ft
Luminous Height	0.00 ft

LUMINANCE DATA (cd/sq.m)

Angle In Degrees	Average 0-Deg	Average 45-Deg	Average 90-Deg
45	13420	12787	11132
55	12133	10374	9593
65	9554	7933	7604
75	6587	5394	5379
85	2352	2159	2337

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CANDELA TABULATION

	0.0	22.5	45.0	67.5	90.0
0	10179.836	10179.836	10179.836	10179.836	10179.836
5	10335.231	10186.592	10119.994	10066.909	10051.466
10	10247.399	10078.491	10035.057	9974.251	9960.738
15	10082.352	9916.339	9881.593	9803.412	9793.760
20	9808.238	9689.520	9638.365	9520.612	9542.812
25	9454.980	9369.078	9297.654	9160.597	9193.414
30	9020.645	8947.291	8893.240	8720.472	8697.307
35	8484.001	8374.934	8361.422	8131.707	7962.799
40	7833.464	7725.363	7652.009	7294.889	6940.665
45	7059.383	6976.377	6726.394	6220.635	5855.794
50	6170.446	6092.265	5611.602	5159.894	4957.204
55	5177.267	5069.166	4426.351	4202.428	4093.361
60	4082.744	3983.330	3386.844	3189.946	3217.936
65	3003.664	2894.598	2494.045	2360.849	2390.770
70	2078.049	1879.221	1735.408	1635.028	1655.297
75	1268.257	1101.279	1038.542	983.526	1035.646
80	603.242	520.236	490.315	479.698	509.619
85	152.500	141.883	139.952	145.743	151.534
90	0.000	0.000	0.000	0.000	0.000

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ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixt
0-20	3755.97	N.A.	14.20
0-30	8036.21	N.A.	30.50
0-40	13192.46	N.A.	50.00
0-60	22366.97	N.A.	84.80
0-80	26144.58	N.A.	99.20
0-90	26362.66	N.A.	100.00
10-90	25397.48	N.A.	96.30
20-40	9436.49	N.A.	35.80
20-50	14514.71	N.A.	55.10
40-70	11784.83	N.A.	44.70
60-80	3777.61	N.A.	14.30
70-80	1167.29	N.A.	4.40
80-90	218.08	N.A.	0.80
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	26362.66	N.A.	100.00

Total Luminaire Efficiency = N.A.%

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	965.19
10-20	2790.78
20-30	4280.24
30-40	5156.26
40-50	5078.22
50-60	4096.29
60-70	2610.32
70-80	1167.29
80-90	218.08
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	110	106	102	98	107	103	100	97	99	96	94	95	93	91	92	90	88	86
2	101	93	87	81	98	91	85	80	88	83	79	84	80	77	81	78	75	73
3	92	82	75	68	90	81	74	68	78	72	67	75	70	66	73	68	64	62
4	85	73	65	59	82	72	64	58	69	63	57	67	61	57	65	60	56	54
5	78	66	57	51	76	65	57	50	63	55	50	61	54	49	59	53	49	47
6	72	59	51	45	70	58	50	44	57	49	44	55	48	44	53	48	43	41
7	67	54	45	39	65	53	45	39	52	44	39	50	44	39	49	43	38	37
8	62	49	41	35	61	49	41	35	47	40	35	46	40	35	45	39	35	33
9	58	45	37	32	57	45	37	32	44	36	32	42	36	31	41	36	31	29
10	55	42	34	29	53	41	34	29	40	33	29	39	33	29	38	33	28	27

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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	20.9	22.4	21.2	22.8	23.1	19.4	21.0	19.8	21.3	21.6
	3H	22.1	23.5	22.5	23.8	24.2	20.7	22.1	21.1	22.4	22.8
	4H	22.5	23.8	22.9	24.2	24.5	21.1	22.4	21.5	22.7	23.1
	6H	22.7	23.9	23.1	24.3	24.7	21.3	22.5	21.7	22.9	23.3
	8H	22.7	23.9	23.2	24.3	24.7	21.4	22.5	21.8	22.9	23.3
	12H	22.7	23.8	23.1	24.2	24.6	21.4	22.5	21.8	22.8	23.3
4H	2H	21.2	22.5	21.6	22.8	23.2	19.9	21.3	20.3	21.6	22.0
	3H	22.6	23.7	23.0	24.1	24.5	21.4	22.5	21.8	22.9	23.3
	4H	23.1	24.0	23.5	24.4	24.9	21.9	22.8	22.3	23.3	23.7
	6H	23.3	24.2	23.8	24.6	25.1	22.2	23.0	22.6	23.5	23.9
	8H	23.4	24.2	23.9	24.6	25.1	22.2	23.0	22.7	23.5	23.9
	12H	23.4	24.1	23.9	24.6	25.1	22.3	23.0	22.7	23.4	23.9
8H	4H	23.1	23.9	23.6	24.4	24.9	22.1	22.8	22.5	23.3	23.8
	6H	23.5	24.1	24.0	24.6	25.1	22.4	23.1	22.9	23.5	24.0
	8H	23.5	24.1	24.1	24.6	25.1	22.5	23.1	23.0	23.6	24.1
	12H	23.6	24.1	24.1	24.6	25.2	22.6	23.1	23.1	23.6	24.1
12H	4H	23.1	23.8	23.6	24.3	24.8	22.1	22.8	22.5	23.2	23.7
	6H	23.5	24.1	24.0	24.5	25.1	22.4	23.0	22.9	23.5	24.0
	8H	23.6	24.1	24.1	24.6	25.1	22.5	23.0	23.0	23.5	24.1

Maximum UGR = 25.2

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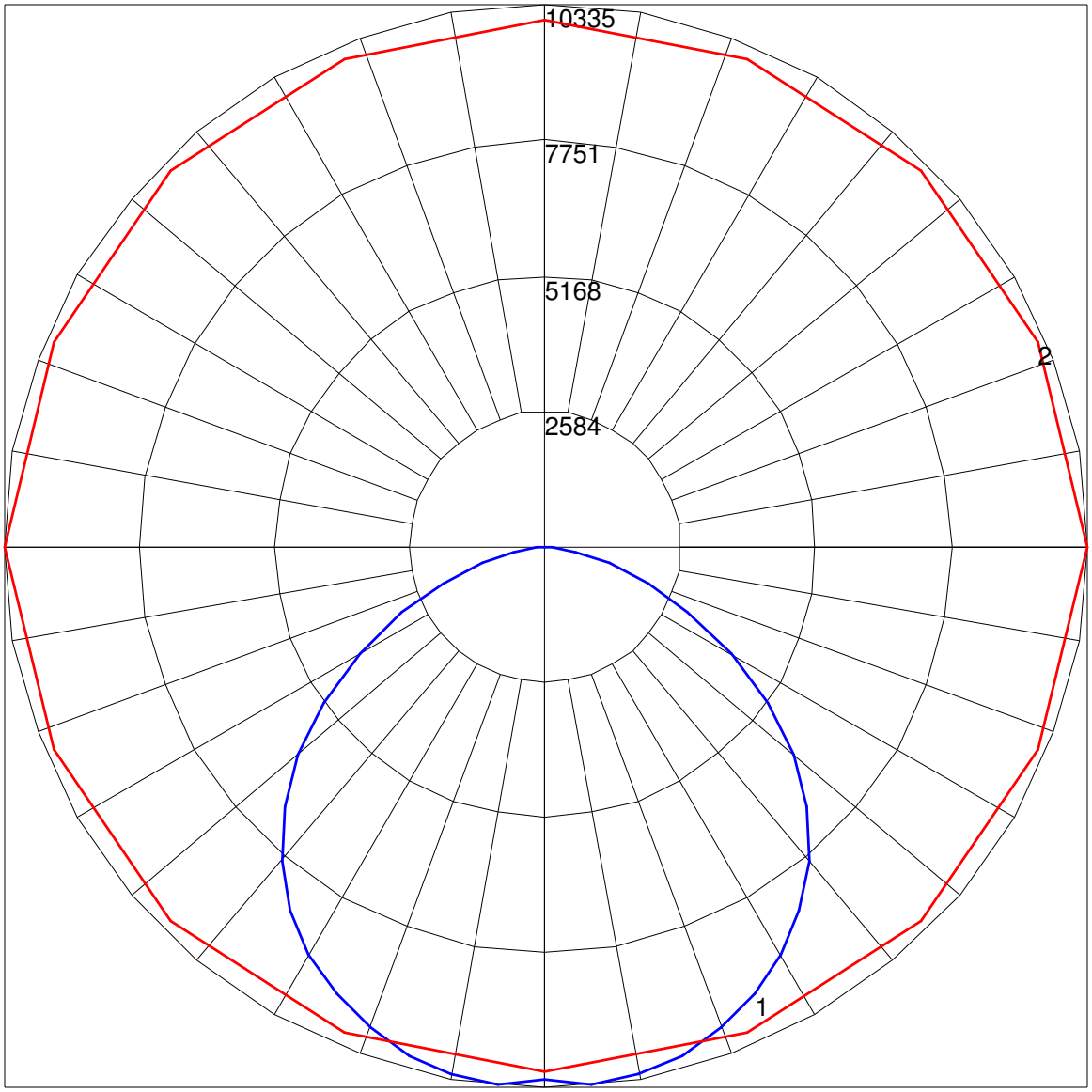
POLAR GRAPH



Maximum Candela = 10335.231 Located At Horizontal Angle = 0, Vertical Angle = 5
1 - Vertical Plane Through Horizontal Angles (0 - 180) (Through Max. Cd.)
2 - Horizontal Cone Through Vertical Angle (5) (Through Max. Cd.)

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