H.E. WILLIAMS, INC.

IES INDOOR REPORT
PHOTOMETRIC FILENAME : GL-8-L300-930-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-L300-930-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	21471
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	112
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	10930	10414	9066
55	9882	8449	7813
65	7781	6461	6193
75	5365	4393	4381
85	1916	1758	1903

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CANDELA TABULATION

	0.0	22.5	45.0	67.5	90.0
0	8290.796	8290.796	8290.796	8290.796	8290.796
5	8417.356	8296.299	8242.059	8198.825	8186.248
10	8345.822	8208.258	8172.884	8123.361	8112.356
15	8211.402	8076.196	8047.897	7984.225	7976.364
20	7988.155	7891.467	7849.805	7753.903	7771.983
25	7700.450	7630.488	7572.318	7460.695	7487.422
30	7346.713	7286.971	7242.950	7102.242	7083.376
35	6909.652	6820.825	6809.820	6622.733	6485.168
40	6379.834	6291.792	6232.050	5941.200	5652.709
45	5749.397	5681.794	5478.199	5066.292	4769.154
50	5025.416	4961.743	4570.275	4202.389	4037.312
55	4216.539	4128.497	3604.968	3422.597	3333.770
60	3325.123	3244.156	2758.358	2597.998	2620.794
65	2446.284	2357.457	2031.233	1922.754	1947.123
70	1692.432	1530.500	1413.374	1331.621	1348.129
75	1032.910	896.918	845.823	801.017	843.465
80	491.301	423.698	399.329	390.682	415.051
85	124.201	115.554	113.982	118.698	123.415
90	0.000	0.000	0.000	0.000	0.000

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ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixt
0-20	3058.99	N.A.	14.20
0-30	6544.95	N.A.	30.50
0-40	10744.38	N.A.	50.00
0-60	18216.4	N.A.	84.80
0-80	21293.02	N.A.	99.20
0-90	21470.63	N.A.	100.00
10-90	20684.55	N.A.	96.30
20-40	7685.39	N.A.	35.80
20-50	11821.26	N.A.	55.10
40-70	9597.96	N.A.	44.70
60-80	3076.61	N.A.	14.30
70-80	950.68	N.A.	4.40
80-90	177.61	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	21470.63	N.A.	100.00

Total Luminaire Efficiency = N.A.%

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	786.08
10-20	2272.91
20-30	3485.97
30-40	4199.43
40-50	4135.87
50-60	3336.15
60-70	2125.93
70-80	950.68
80-90	177.61
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	20.2	21.7	20.5	22.1	22.4	18.7	20.3	19.1	20.6	20.9
	3H	21.4	22.8	21.8	23.1	23.5	20.0	21.4	20.4	21.7	22.1
	4H	21.8	23.1	22.2	23.5	23.8	20.4	21.7	20.8	22.0	22.4
	6H	22.0	23.2	22.4	23.6	24.0	20.6	21.8	21.0	22.2	22.6
	8H	22.0	23.2	22.5	23.6	24.0	20.7	21.8	21.1	22.2	22.6
	12H	22.0	23.1	22.4	23.5	23.9	20.7	21.8	21.1	22.1	22.6
4H	2H	20.5	21.8	20.9	22.1	22.5	19.2	20.6	19.6	20.9	21.3
	3H	21.9	23.0	22.3	23.4	23.8	20.7	21.8	21.1	22.2	22.6
	4H	22.4	23.3	22.8	23.7	24.2	21.2	22.1	21.6	22.6	23.0
	6H	22.6	23.5	23.1	23.9	24.4	21.5	22.3	21.9	22.8	23.2
	8H	22.7	23.5	23.2	23.9	24.4	21.5	22.3	22.0	22.8	23.2
	12H	22.7	23.4	23.2	23.9	24.4	21.6	22.3	22.0	22.7	23.2
8H	4H	22.4	23.2	22.9	23.7	24.2	21.4	22.1	21.8	22.6	23.1
	6H	22.8	23.4	23.3	23.9	24.4	21.7	22.4	22.2	22.8	23.3
	8H	22.8	23.4	23.4	23.9	24.4	21.8	22.4	22.3	22.9	23.4
	12H	22.9	23.4	23.4	23.9	24.5	21.9	22.4	22.4	22.9	23.4
12H	4H	22.4	23.1	22.9	23.6	24.1	21.4	22.1	21.8	22.5	23.0
	6H	22.8	23.4	23.3	23.8	24.4	21.7	22.3	22.2	22.8	23.3
	8H	22.9	23.4	23.4	23.9	24.4	21.8	22.3	22.3	22.8	23.4

Maximum UGR = 24.5

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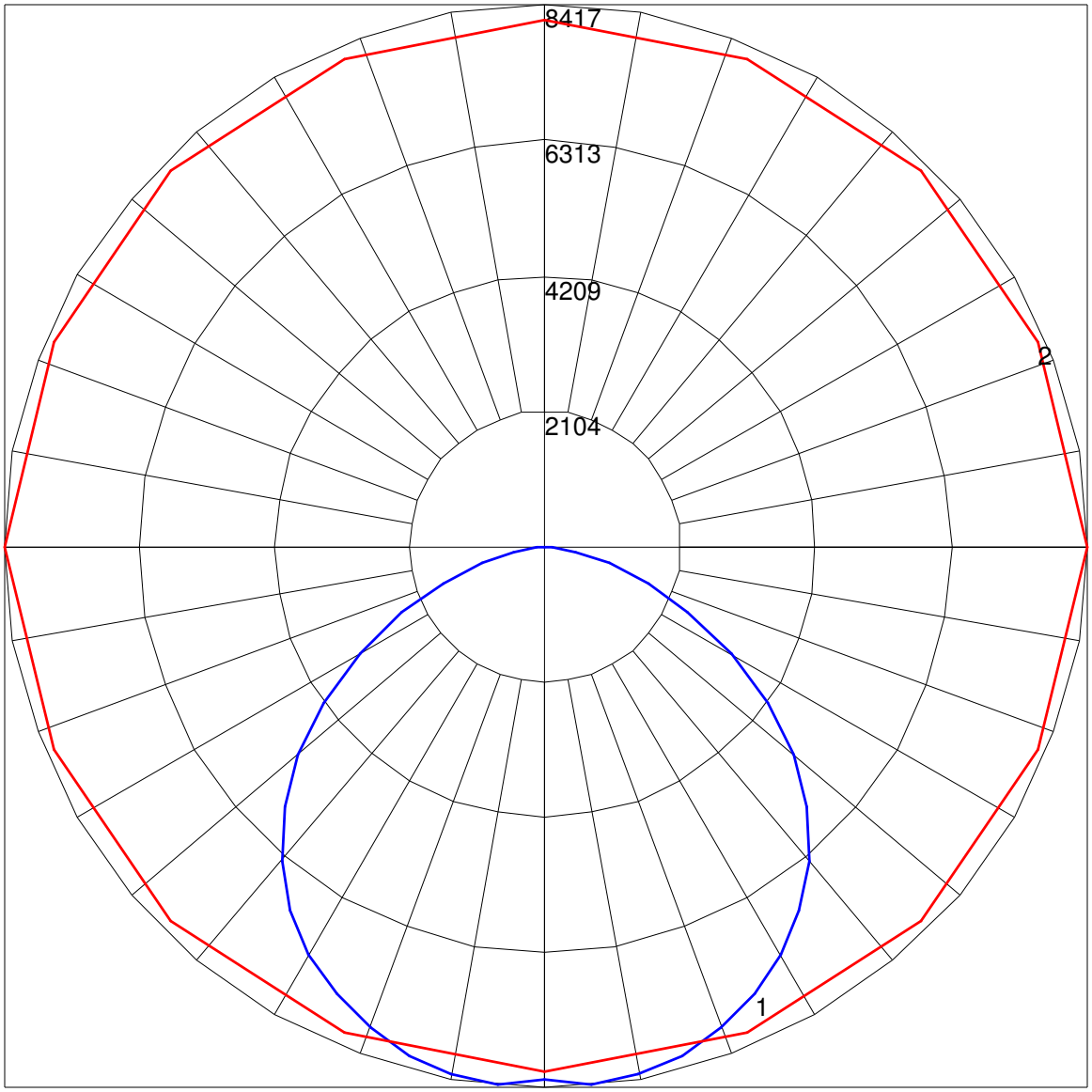
POLAR GRAPH



Maximum Candela = 8417.356 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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