H.E. WILLIAMS, INC.

IES INDOOR REPORT
PHOTOMETRIC FILENAME : GL-8-L300-950-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-L300-950-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	23373
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	122
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	11898	11337	9870
55	10757	9197	8505
65	8470	7033	6742
75	5840	4782	4769
85	2085	1914	2072

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CANDELA TABULATION

	0.0	22.5	45.0	67.5	90.0
0	9025.423	9025.423	9025.423	9025.423	9025.423
5	9163.196	9031.413	8972.368	8925.302	8911.611
10	9085.325	8935.571	8897.063	8843.152	8831.172
15	8938.994	8791.808	8761.002	8691.687	8683.130
20	8695.966	8590.711	8545.357	8440.957	8460.639
25	8382.767	8306.607	8243.283	8121.768	8150.863
30	7997.687	7932.651	7884.730	7731.554	7711.016
35	7521.899	7425.201	7413.221	7209.556	7059.803
40	6945.135	6849.292	6784.257	6467.635	6153.581
45	6258.836	6185.243	5963.608	5515.204	5191.736
50	5470.705	5401.391	4975.236	4574.752	4395.048
55	4590.156	4494.313	3924.395	3725.864	3629.167
60	3619.754	3531.613	3002.770	2828.200	2853.016
65	2663.043	2566.345	2211.216	2093.125	2119.652
70	1842.395	1666.113	1538.609	1449.613	1467.583
75	1124.434	976.392	920.769	871.993	918.202
80	534.834	461.240	434.713	425.300	451.827
85	135.206	125.793	124.081	129.216	134.350
90	0.000	0.000	0.000	0.000	0.000

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ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixt
0-20	3330.03	N.A.	14.20
0-30	7124.89	N.A.	30.50
0-40	11696.41	N.A.	50.00
0-60	19830.51	N.A.	84.80
0-80	23179.74	N.A.	99.20
0-90	23373.09	N.A.	100.00
10-90	22517.36	N.A.	96.30
20-40	8366.38	N.A.	35.80
20-50	12868.72	N.A.	55.10
40-70	10448.41	N.A.	44.70
60-80	3349.23	N.A.	14.30
70-80	1034.92	N.A.	4.40
80-90	193.35	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	23373.09	N.A.	100.00

Total Luminaire Efficiency = N.A.%

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	855.73
10-20	2474.3
20-30	3794.85
30-40	4571.53
40-50	4502.34
50-60	3631.76
60-70	2314.31
70-80	1034.92
80-90	193.35
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	20.4	21.9	20.7	22.3	22.6	18.9	20.5	19.3	20.8	21.1
	3H	21.6	23.0	22.0	23.3	23.7	20.2	21.6	20.6	21.9	22.3
	4H	22.0	23.3	22.4	23.7	24.0	20.6	21.9	21.0	22.2	22.6
	6H	22.2	23.4	22.6	23.8	24.2	20.8	22.0	21.2	22.4	22.8
	8H	22.2	23.4	22.7	23.8	24.2	20.9	22.0	21.3	22.4	22.8
	12H	22.2	23.3	22.6	23.7	24.1	20.9	22.0	21.3	22.3	22.8
4H	2H	20.7	22.0	21.1	22.3	22.7	19.4	20.8	19.8	21.1	21.5
	3H	22.1	23.2	22.5	23.6	24.0	20.9	22.0	21.3	22.4	22.8
	4H	22.6	23.5	23.0	23.9	24.4	21.4	22.3	21.8	22.8	23.2
	6H	22.8	23.7	23.3	24.1	24.6	21.7	22.5	22.1	23.0	23.4
	8H	22.9	23.7	23.4	24.1	24.6	21.7	22.5	22.2	23.0	23.4
	12H	22.9	23.6	23.4	24.1	24.6	21.8	22.5	22.2	22.9	23.4
8H	4H	22.6	23.4	23.1	23.9	24.4	21.6	22.3	22.0	22.8	23.3
	6H	23.0	23.6	23.5	24.1	24.6	21.9	22.6	22.4	23.0	23.5
	8H	23.0	23.6	23.6	24.1	24.6	22.0	22.6	22.5	23.1	23.6
	12H	23.1	23.6	23.6	24.1	24.7	22.1	22.6	22.6	23.1	23.6
12H	4H	22.6	23.3	23.1	23.8	24.3	21.6	22.3	22.0	22.7	23.2
	6H	23.0	23.6	23.5	24.0	24.6	21.9	22.5	22.4	23.0	23.5
	8H	23.1	23.6	23.6	24.1	24.6	22.0	22.5	22.5	23.0	23.6

Maximum UGR = 24.7

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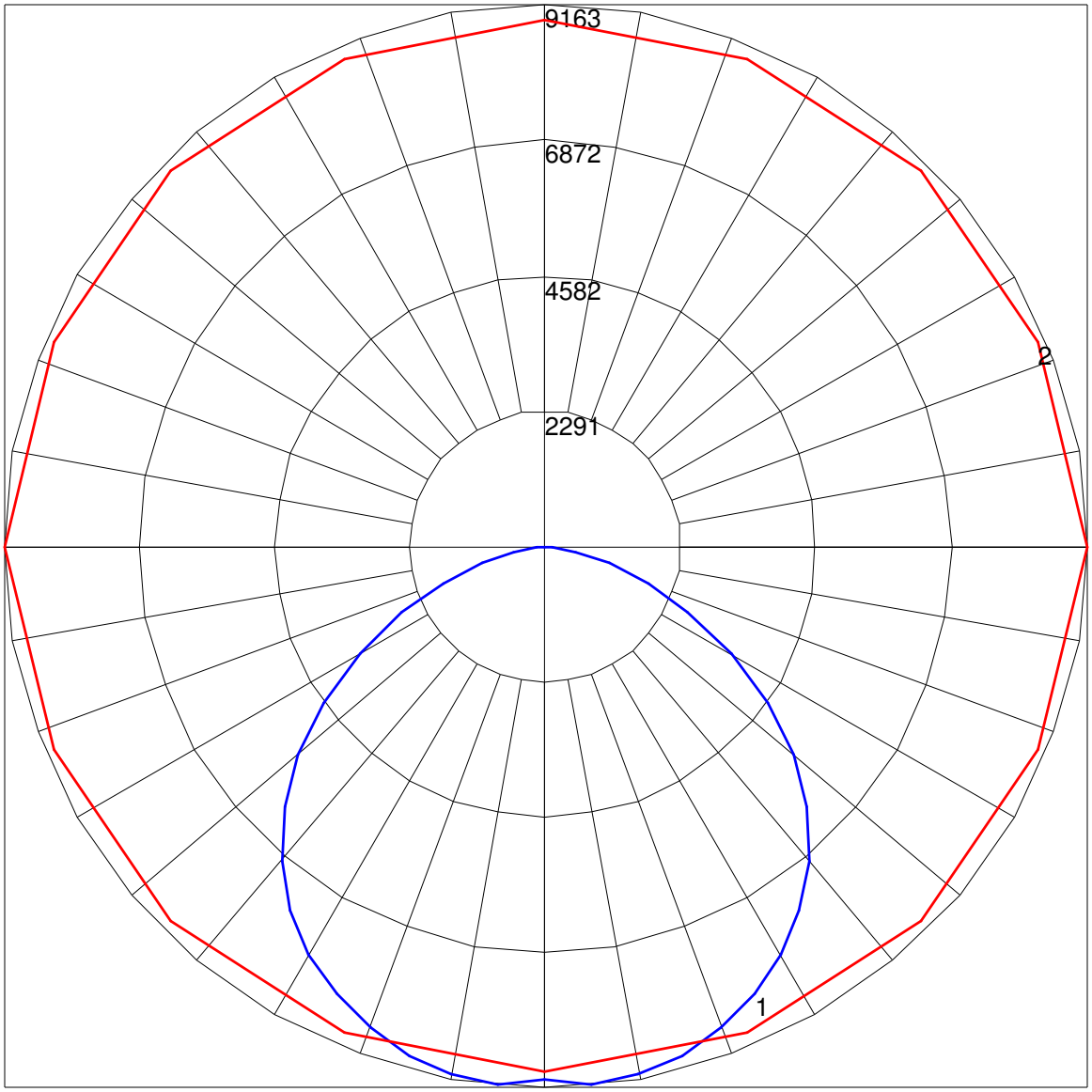
POLAR GRAPH



Maximum Candela = 9163.196 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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