H.E. WILLIAMS, INC.

IES INDOOR REPORT
PHOTOMETRIC FILENAME : GL-8-L300-830-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-L300-830-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	26091
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	136
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	13282	12655	11017
55	12008	10267	9494
65	9455	7851	7526
75	6519	5338	5323
85	2328	2136	2313

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CANDELA TABULATION

	0.0	22.5	45.0	67.5	90.0
0	10074.889	10074.889	10074.889	10074.889	10074.889
5	10228.682	10081.575	10015.664	9963.126	9947.842
10	10141.755	9974.589	9931.603	9871.423	9858.050
15	9978.410	9814.109	9779.720	9702.346	9692.794
20	9707.122	9589.628	9539.001	9422.462	9444.432
25	9357.505	9272.489	9201.802	9066.158	9098.636
30	8927.649	8855.051	8801.557	8630.570	8607.644
35	8396.537	8288.595	8275.221	8047.875	7880.708
40	7752.707	7645.720	7573.122	7219.684	6869.112
45	6986.606	6904.456	6657.049	6156.505	5795.425
50	6106.833	6029.458	5553.750	5106.699	4906.099
55	5123.893	5016.907	4380.719	4159.104	4051.162
60	4040.654	3942.265	3351.928	3157.060	3184.761
65	2972.699	2864.757	2468.333	2336.511	2366.123
70	2056.626	1859.847	1717.517	1618.172	1638.232
75	1255.182	1089.926	1027.835	973.387	1024.970
80	597.023	514.873	485.261	474.753	504.365
85	150.928	140.420	138.509	144.241	149.972
90	0.000	0.000	0.000	0.000	0.000

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ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixt
0-20	3717.25	N.A.	14.20
0-30	7953.36	N.A.	30.50
0-40	13056.46	N.A.	50.00
0-60	22136.38	N.A.	84.80
0-80	25875.05	N.A.	99.20
0-90	26090.88	N.A.	100.00
10-90	25135.65	N.A.	96.30
20-40	9339.21	N.A.	35.80
20-50	14365.08	N.A.	55.10
40-70	11663.33	N.A.	44.70
60-80	3738.67	N.A.	14.30
70-80	1155.26	N.A.	4.40
80-90	215.83	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	26090.88	N.A.	100.00

Total Luminaire Efficiency = N.A.%

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	955.24
10-20	2762.01
20-30	4236.11
30-40	5103.1
40-50	5025.87
50-60	4054.06
60-70	2583.41
70-80	1155.26
80-90	215.83
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	20.8	22.3	21.1	22.7	23.0	19.3	20.9	19.7	21.2	21.5
	3H	22.0	23.4	22.4	23.7	24.1	20.6	22.0	21.0	22.3	22.7
	4H	22.4	23.7	22.8	24.1	24.4	21.0	22.3	21.4	22.6	23.0
	6H	22.6	23.8	23.0	24.2	24.6	21.2	22.4	21.6	22.8	23.2
	8H	22.6	23.8	23.1	24.2	24.6	21.3	22.4	21.7	22.8	23.2
	12H	22.6	23.7	23.0	24.1	24.5	21.3	22.4	21.7	22.7	23.2
4H	2H	21.1	22.4	21.5	22.7	23.1	19.8	21.2	20.2	21.5	21.9
	3H	22.5	23.6	22.9	24.0	24.4	21.3	22.4	21.7	22.8	23.2
	4H	23.0	23.9	23.4	24.3	24.8	21.8	22.7	22.2	23.2	23.6
	6H	23.2	24.1	23.7	24.5	25.0	22.1	22.9	22.5	23.4	23.8
	8H	23.3	24.1	23.8	24.5	25.0	22.1	22.9	22.6	23.4	23.8
	12H	23.3	24.0	23.8	24.5	25.0	22.2	22.9	22.6	23.3	23.8
8H	4H	23.0	23.8	23.5	24.3	24.8	22.0	22.7	22.4	23.2	23.7
	6H	23.4	24.0	23.9	24.5	25.0	22.3	23.0	22.8	23.4	23.9
	8H	23.4	24.0	24.0	24.5	25.0	22.4	23.0	22.9	23.5	24.0
	12H	23.5	24.0	24.0	24.5	25.1	22.5	23.0	23.0	23.5	24.0
12H	4H	23.0	23.7	23.5	24.2	24.7	22.0	22.7	22.4	23.1	23.6
	6H	23.4	24.0	23.9	24.4	25.0	22.3	22.9	22.8	23.4	23.9
	8H	23.5	24.0	24.0	24.5	25.0	22.4	22.9	22.9	23.4	24.0

Maximum UGR = 25.1

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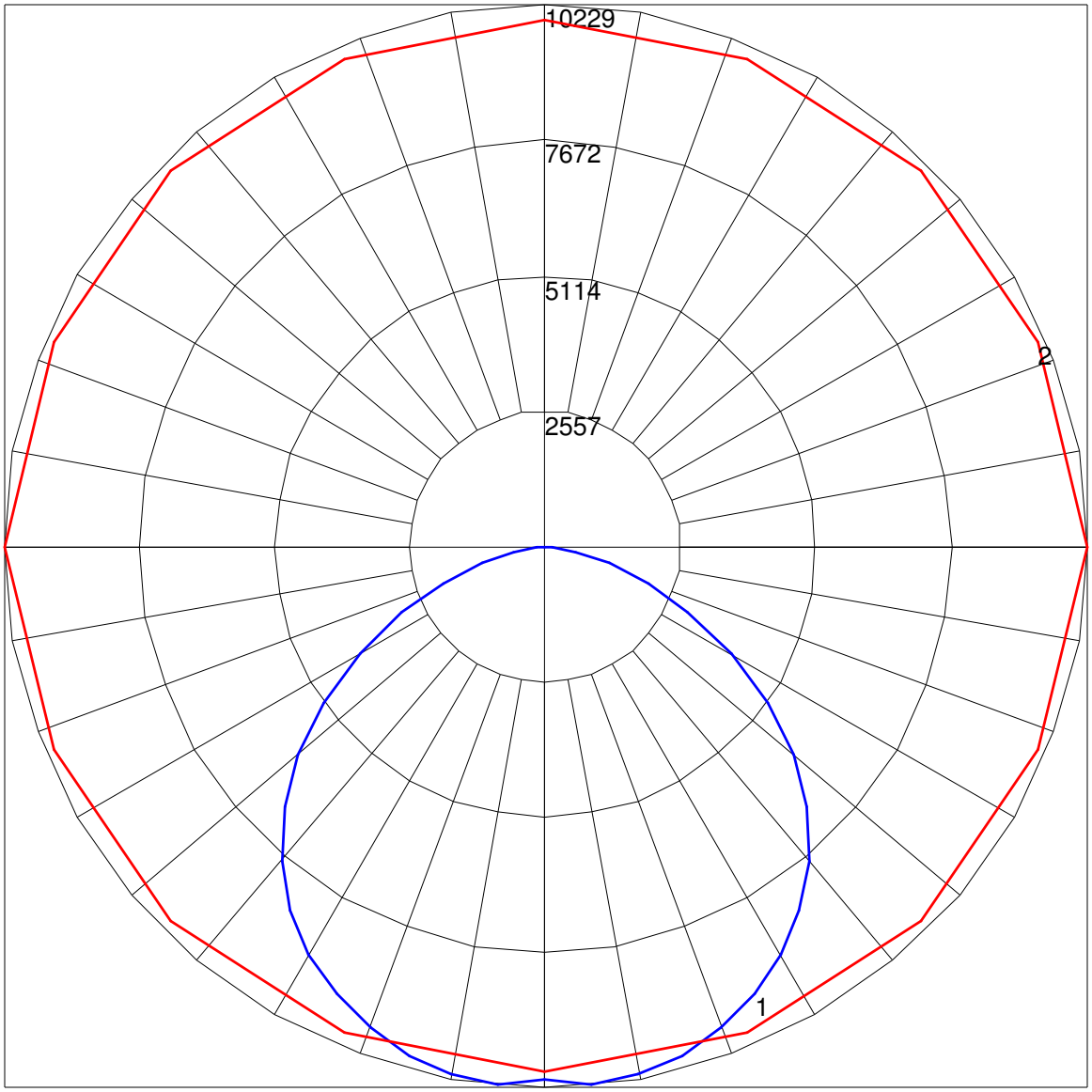
POLAR GRAPH



Maximum Candela = 10228.682 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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