H.E. WILLIAMS, INC.

IES INDOOR REPORT
PHOTOMETRIC FILENAME : GL-8-L300-850-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-L300-850-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	27993
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	146
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	14250	13578	11821
55	12884	11015	10187
65	10145	8424	8075
75	6994	5728	5712
85	2498	2292	2482

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CANDELA TABULATION

	0.0	22.5	45.0	67.5	90.0
0	10809.514	10809.514	10809.514	10809.514	10809.514
5	10974.522	10816.688	10745.971	10689.602	10673.204
10	10881.257	10701.901	10655.781	10591.213	10576.864
15	10706.000	10529.719	10492.823	10409.807	10399.558
20	10414.932	10288.870	10234.551	10109.514	10133.087
25	10039.822	9948.607	9872.765	9727.230	9762.077
30	9578.621	9500.730	9443.336	9259.881	9235.283
35	9008.783	8892.970	8878.622	8634.698	8455.342
40	8318.007	8203.219	8125.327	7746.118	7369.984
45	7496.045	7407.905	7142.458	6605.416	6218.007
50	6552.121	6469.105	5958.710	5479.062	5263.835
55	5497.510	5382.722	4700.145	4462.371	4346.558
60	4335.284	4229.721	3596.339	3387.261	3416.983
65	3189.458	3073.645	2648.316	2506.881	2538.652
70	2206.588	1995.461	1842.752	1736.164	1757.686
75	1346.705	1169.399	1102.782	1044.363	1099.707
80	640.556	552.416	520.644	509.370	541.142
85	161.933	150.659	148.609	154.758	160.908
90	0.000	0.000	0.000	0.000	0.000

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ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixt
0-20	3988.3	N.A.	14.20
0-30	8533.29	N.A.	30.50
0-40	14008.49	N.A.	50.00
0-60	23750.49	N.A.	84.80
0-80	27761.77	N.A.	99.20
0-90	27993.34	N.A.	100.00
10-90	26968.45	N.A.	96.30
20-40	10020.19	N.A.	35.80
20-50	15412.53	N.A.	55.10
40-70	12513.78	N.A.	44.70
60-80	4011.28	N.A.	14.30
70-80	1239.5	N.A.	4.40
80-90	231.57	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	27993.34	N.A.	100.00

Total Luminaire Efficiency = N.A.%

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	1024.89
10-20	2963.41
20-30	4545.00
30-40	5475.2
40-50	5392.33
50-60	4349.67
60-70	2771.78
70-80	1239.5
80-90	231.57
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	21.1	22.6	21.4	23.0	23.3	19.6	21.2	20.0	21.5	21.8
	3H	22.3	23.7	22.7	24.0	24.4	20.9	22.3	21.3	22.6	23.0
	4H	22.7	24.0	23.1	24.4	24.7	21.3	22.6	21.7	22.9	23.3
	6H	22.9	24.1	23.3	24.5	24.9	21.5	22.7	21.9	23.1	23.5
	8H	22.9	24.1	23.4	24.5	24.9	21.6	22.7	22.0	23.1	23.5
	12H	22.9	24.0	23.3	24.4	24.8	21.6	22.7	22.0	23.0	23.5
4H	2H	21.4	22.7	21.8	23.0	23.4	20.1	21.5	20.5	21.8	22.2
	3H	22.8	23.9	23.2	24.3	24.7	21.6	22.7	22.0	23.1	23.5
	4H	23.3	24.2	23.7	24.6	25.1	22.1	23.0	22.5	23.5	23.9
	6H	23.5	24.4	24.0	24.8	25.3	22.4	23.2	22.8	23.7	24.1
	8H	23.6	24.4	24.1	24.8	25.3	22.4	23.2	22.9	23.7	24.1
	12H	23.6	24.3	24.1	24.8	25.3	22.5	23.2	22.9	23.6	24.1
8H	4H	23.3	24.1	23.8	24.6	25.1	22.3	23.0	22.7	23.5	24.0
	6H	23.7	24.3	24.2	24.8	25.3	22.6	23.3	23.1	23.7	24.2
	8H	23.7	24.3	24.3	24.8	25.3	22.7	23.3	23.2	23.8	24.3
	12H	23.8	24.3	24.3	24.8	25.4	22.8	23.3	23.3	23.8	24.3
12H	4H	23.3	24.0	23.8	24.5	25.0	22.3	23.0	22.7	23.4	23.9
	6H	23.7	24.3	24.2	24.7	25.3	22.6	23.2	23.1	23.7	24.2
	8H	23.8	24.3	24.3	24.8	25.3	22.7	23.2	23.2	23.7	24.3

Maximum UGR = 25.4

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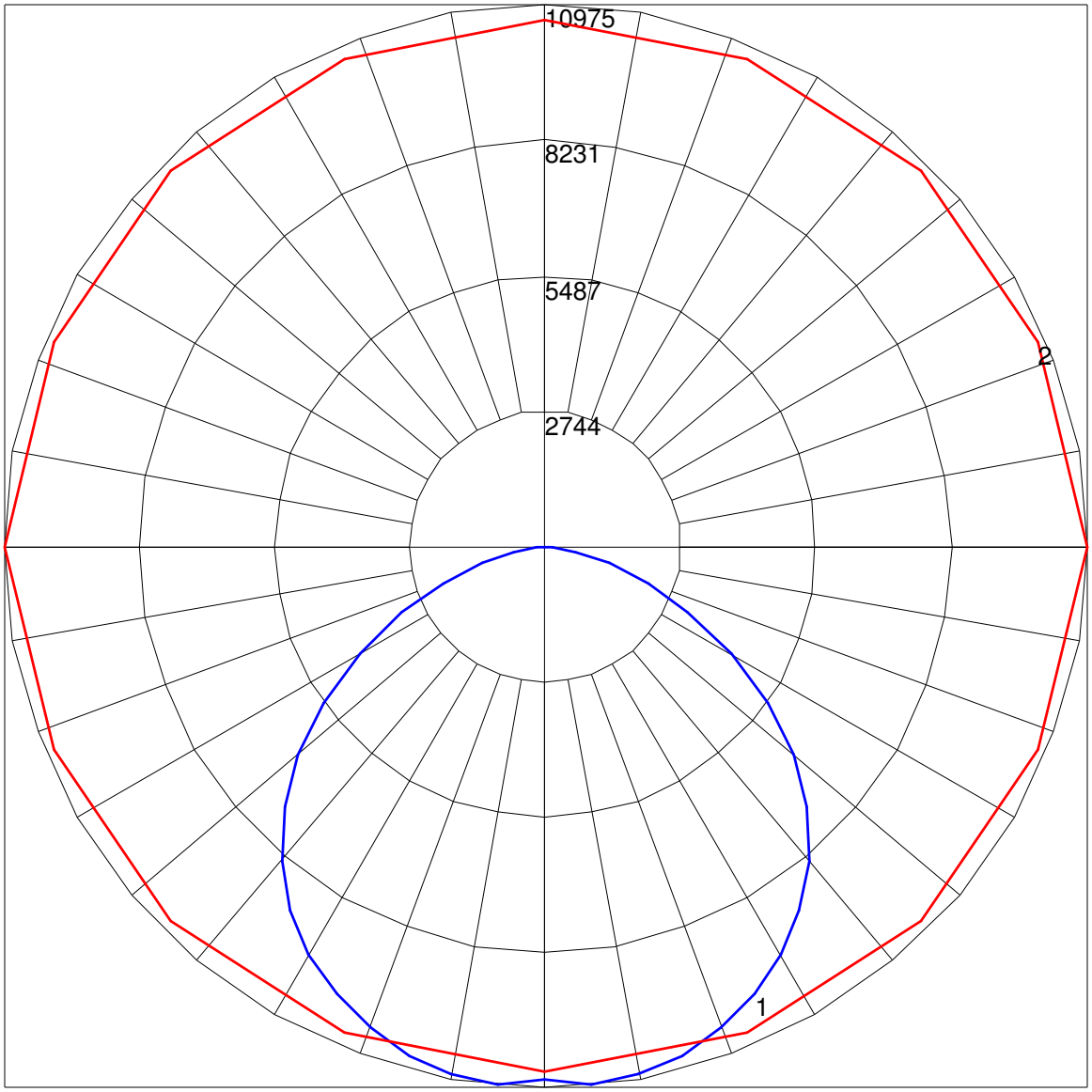
POLAR GRAPH



Maximum Candela = 10974.522 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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