H.E. WILLIAMS, INC.

IES INDOOR REPORT
PHOTOMETRIC FILENAME : GL-8-L600-850-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-L600-850-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	56063
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	140
Total Luminaire Watts	400
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	28539	27193	23673
55	25803	22060	20401
65	20317	16870	16171
75	14008	11471	11439
85	5002	4590	4970

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CANDELA TABULATION

	0.0	22.5	45.0	67.5	90.0
0	21648.477	21648.477	21648.477	21648.477	21648.477
5	21978.941	21662.845	21521.218	21408.326	21375.485
10	21792.157	21432.957	21340.591	21211.279	21182.543
15	21441.167	21088.125	21014.232	20847.974	20827.448
20	20858.237	20605.770	20496.984	20246.570	20293.779
25	20106.995	19924.317	19772.426	19480.961	19550.748
30	19183.338	19027.343	18912.399	18544.988	18495.726
35	18042.108	17810.167	17781.431	17292.919	16933.719
40	16658.674	16428.786	16272.791	15513.339	14760.045
45	15012.512	14835.991	14304.374	13228.827	12452.954
50	13122.093	12955.835	11933.654	10973.050	10542.010
55	11009.996	10780.108	9413.095	8936.899	8704.958
60	8682.380	8470.965	7202.475	6783.750	6843.275
65	6387.604	6155.663	5303.846	5020.591	5084.221
70	4419.188	3996.358	3690.524	3477.057	3520.161
75	2697.080	2341.985	2208.567	2091.571	2202.410
80	1282.858	1106.336	1042.707	1020.128	1083.758
85	324.306	301.728	297.623	309.938	322.254
90	0.000	0.000	0.000	0.000	0.000

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ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixt
0-20	7987.46	N.A.	14.20
0-30	17089.83	N.A.	30.50
0-40	28055.14	N.A.	50.00
0-60	47565.68	N.A.	84.80
0-80	55599.17	N.A.	99.20
0-90	56062.94	N.A.	100.00
10-90	54010.37	N.A.	96.30
20-40	20067.68	N.A.	35.80
20-50	30867.04	N.A.	55.10
40-70	25061.66	N.A.	44.70
60-80	8033.49	N.A.	14.30
70-80	2482.37	N.A.	4.40
80-90	463.77	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	56062.94	N.A.	100.00

Total Luminaire Efficiency = N.A.%

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	2052.57
10-20	5934.89
20-30	9102.37
30-40	10965.31
40-50	10799.36
50-60	8711.18
60-70	5551.12
70-80	2482.37
80-90	463.77
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	23.5	25.0	23.8	25.4	25.7	22.0	23.6	22.4	23.9	24.2
	3H	24.7	26.1	25.1	26.4	26.8	23.3	24.7	23.7	25.0	25.4
	4H	25.1	26.4	25.5	26.8	27.1	23.7	25.0	24.1	25.3	25.7
	6H	25.3	26.5	25.7	26.9	27.3	23.9	25.1	24.3	25.5	25.9
	8H	25.3	26.5	25.8	26.9	27.3	24.0	25.1	24.4	25.5	25.9
	12H	25.3	26.4	25.7	26.8	27.2	24.0	25.1	24.4	25.4	25.9
4H	2H	23.8	25.1	24.2	25.4	25.8	22.5	23.9	22.9	24.2	24.6
	3H	25.2	26.3	25.6	26.7	27.1	24.0	25.1	24.4	25.5	25.9
	4H	25.7	26.6	26.1	27.0	27.5	24.5	25.4	24.9	25.9	26.3
	6H	25.9	26.8	26.4	27.2	27.7	24.8	25.6	25.2	26.1	26.5
	8H	26.0	26.8	26.5	27.2	27.7	24.8	25.6	25.3	26.1	26.5
	12H	26.0	26.7	26.5	27.2	27.7	24.9	25.6	25.3	26.0	26.5
8H	4H	25.7	26.5	26.2	27.0	27.5	24.7	25.4	25.1	25.9	26.4
	6H	26.1	26.7	26.6	27.2	27.7	25.0	25.7	25.5	26.1	26.6
	8H	26.1	26.7	26.7	27.2	27.7	25.1	25.7	25.6	26.2	26.7
	12H	26.2	26.7	26.7	27.2	27.8	25.2	25.7	25.7	26.2	26.7
12H	4H	25.7	26.4	26.2	26.9	27.4	24.7	25.4	25.1	25.8	26.3
	6H	26.1	26.7	26.6	27.1	27.7	25.0	25.6	25.5	26.1	26.6
	8H	26.2	26.7	26.7	27.2	27.7	25.1	25.6	25.6	26.1	26.7

Maximum UGR = 27.8

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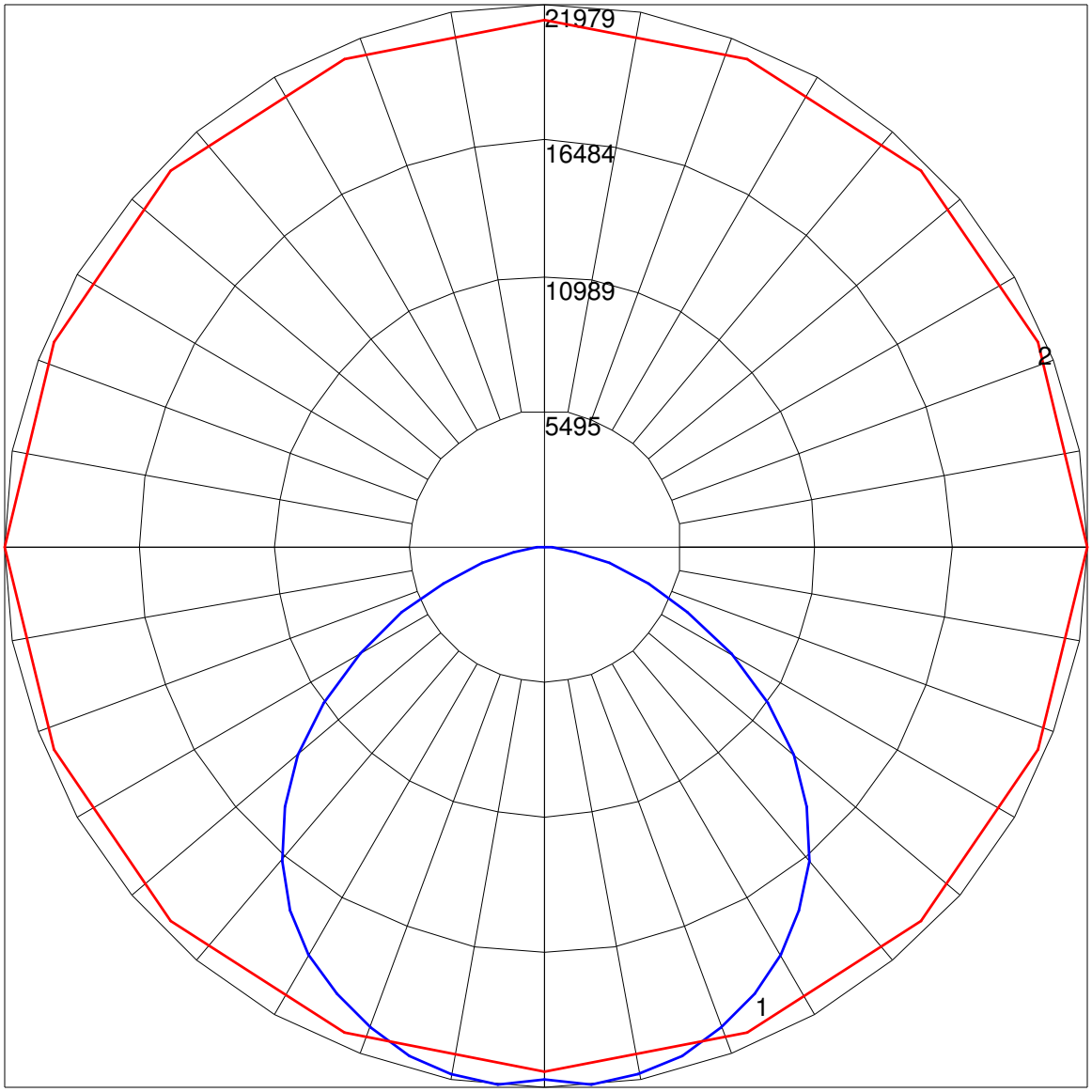
POLAR GRAPH



Maximum Candela = 21978.941 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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