H.E. WILLIAMS, INC.

IES INDOOR REPORT
PHOTOMETRIC FILENAME : GL-8-L600-835-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-L600-835-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	52797
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	132
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	26877	25609	22294
55	24300	20775	19212
65	19134	15887	15229
75	13192	10802	10772
85	4711	4323	4681

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CANDELA TABULATION

	0.0	22.5	45.0	67.5	90.0
0	20387.403	20387.403	20387.403	20387.403	20387.403
5	20698.617	20400.935	20267.557	20161.242	20130.314
10	20522.714	20184.438	20097.453	19975.673	19948.611
15	20192.170	19859.693	19790.105	19633.532	19614.201
20	19643.197	19405.437	19302.988	19067.161	19111.620
25	18935.717	18763.679	18620.637	18346.150	18411.872
30	18065.864	17918.956	17810.708	17464.700	17418.308
35	16991.114	16772.684	16745.622	16285.567	15947.291
40	15688.268	15471.772	15324.863	14609.652	13900.239
45	14137.998	13971.760	13471.112	12458.217	11727.541
50	12357.701	12201.127	11238.491	10333.845	9927.914
55	10368.639	10152.142	8864.761	8416.304	8197.874
60	8176.611	7977.512	6782.914	6388.581	6444.639
65	6015.511	5797.082	4994.885	4728.130	4788.053
70	4161.760	3763.561	3475.543	3274.510	3315.104
75	2539.969	2205.559	2079.913	1969.732	2074.114
80	1208.128	1041.890	981.967	960.703	1020.627
85	305.415	284.152	280.286	291.884	303.482
90	0.000	0.000	0.000	0.000	0.000

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ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixt
0-20	7522.17	N.A.	14.20
0-30	16094.31	N.A.	30.50
0-40	26420.86	N.A.	50.00
0-60	44794.87	N.A.	84.80
0-80	52360.39	N.A.	99.20
0-90	52797.14	N.A.	100.00
10-90	50864.14	N.A.	96.30
20-40	18898.7	N.A.	35.80
20-50	29068.96	N.A.	55.10
40-70	23601.76	N.A.	44.70
60-80	7565.52	N.A.	14.30
70-80	2337.77	N.A.	4.40
80-90	436.75	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	52797.14	N.A.	100.00

Total Luminaire Efficiency = N.A.%

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	1933.00
10-20	5589.17
20-30	8572.14
30-40	10326.56
40-50	10170.27
50-60	8203.74
60-70	5227.75
70-80	2337.77
80-90	436.75
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	23.3	24.8	23.6	25.2	25.5	21.8	23.4	22.2	23.7	24.0
	3H	24.5	25.9	24.9	26.2	26.6	23.1	24.5	23.5	24.8	25.2
	4H	24.9	26.2	25.3	26.6	26.9	23.5	24.8	23.9	25.1	25.5
	6H	25.1	26.3	25.5	26.7	27.1	23.7	24.9	24.1	25.3	25.7
	8H	25.1	26.3	25.6	26.7	27.1	23.8	24.9	24.2	25.3	25.7
	12H	25.1	26.2	25.5	26.6	27.0	23.8	24.9	24.2	25.2	25.7
4H	2H	23.6	24.9	24.0	25.2	25.6	22.3	23.7	22.7	24.0	24.4
	3H	25.0	26.1	25.4	26.5	26.9	23.8	24.9	24.2	25.3	25.7
	4H	25.5	26.4	25.9	26.8	27.3	24.3	25.2	24.7	25.7	26.1
	6H	25.7	26.6	26.2	27.0	27.5	24.6	25.4	25.0	25.9	26.3
	8H	25.8	26.6	26.3	27.0	27.5	24.6	25.4	25.1	25.9	26.3
	12H	25.8	26.5	26.3	27.0	27.5	24.7	25.4	25.1	25.8	26.3
8H	4H	25.5	26.3	26.0	26.8	27.3	24.5	25.2	24.9	25.7	26.2
	6H	25.9	26.5	26.4	27.0	27.5	24.8	25.5	25.3	25.9	26.4
	8H	25.9	26.5	26.5	27.0	27.5	24.9	25.5	25.4	26.0	26.5
	12H	26.0	26.5	26.5	27.0	27.6	25.0	25.5	25.5	26.0	26.5
12H	4H	25.5	26.2	26.0	26.7	27.2	24.5	25.2	24.9	25.6	26.1
	6H	25.9	26.5	26.4	26.9	27.5	24.8	25.4	25.3	25.9	26.4
	8H	26.0	26.5	26.5	27.0	27.5	24.9	25.4	25.4	25.9	26.5

Maximum UGR = 27.6

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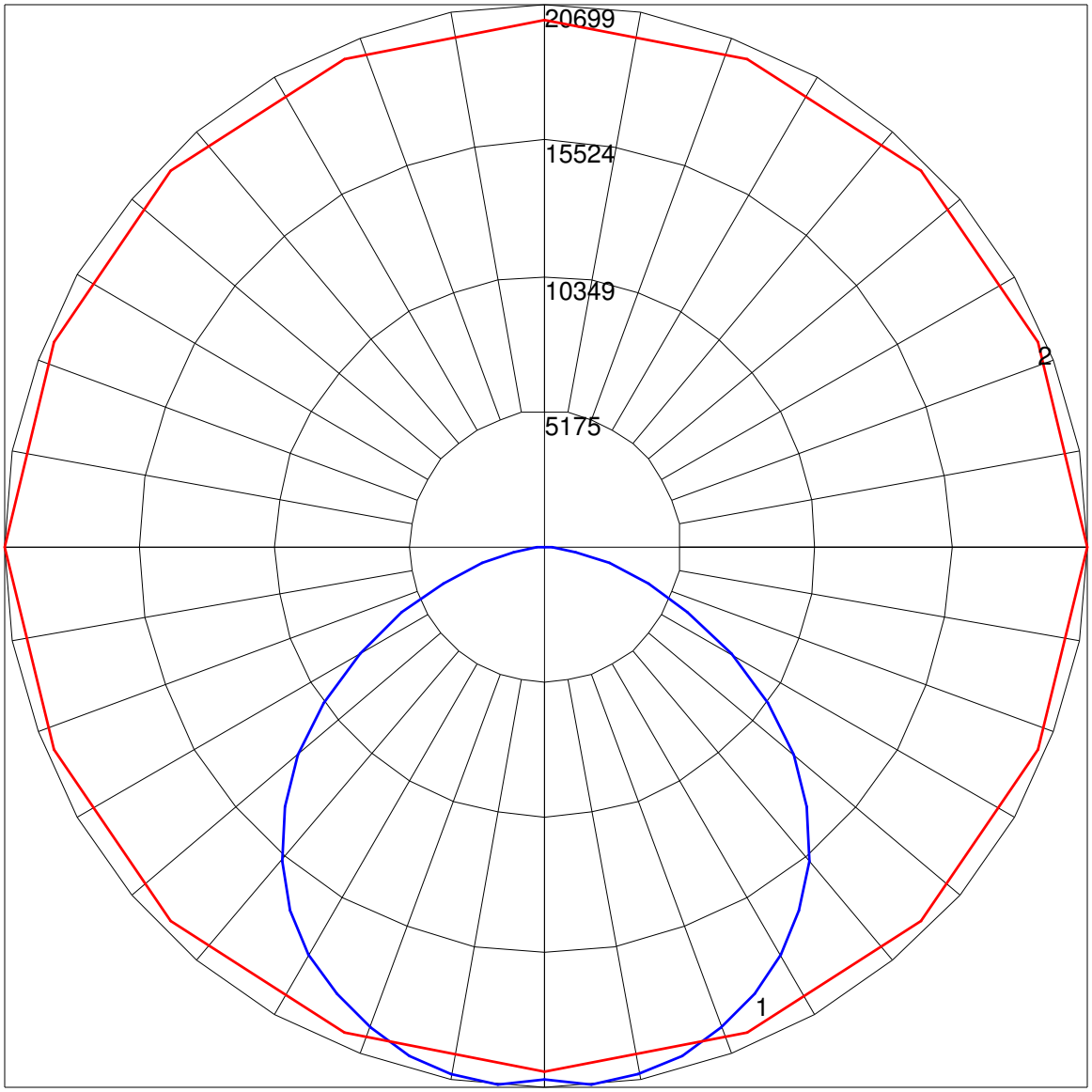
POLAR GRAPH



Maximum Candela = 20698.617 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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