H.E. WILLIAMS, INC.

IES INDOOR REPORT
PHOTOMETRIC FILENAME : GL-8-L600-935-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-L600-935-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	43544
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	109
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	22166	21121	18387
55	20041	17134	15845
65	15780	13103	12560
75	10880	8909	8884
85	3885	3565	3860

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CANDELA TABULATION

	0.0	22.5	45.0	67.5	90.0
0	16814.344	16814.344	16814.344	16814.344	16814.344
5	17071.015	16825.504	16715.502	16627.819	16602.312
10	16925.941	16646.950	16575.210	16474.773	16452.454
15	16653.327	16379.120	16321.727	16192.595	16176.652
20	16200.566	16004.476	15919.981	15725.485	15762.153
25	15617.078	15475.191	15357.218	15130.837	15185.041
30	14899.674	14778.513	14689.236	14403.869	14365.607
35	14013.282	13833.134	13810.815	13431.388	13152.398
40	12938.771	12760.217	12639.056	12049.191	11464.108
45	11660.199	11523.095	11110.189	10274.813	9672.194
50	10191.913	10062.780	9268.854	8522.754	8187.966
55	8551.450	8372.896	7311.139	6941.278	6761.130
60	6743.593	6579.387	5594.153	5268.930	5315.163
65	4961.244	4781.096	4119.490	3899.487	3948.908
70	3432.377	3103.966	2866.426	2700.626	2734.105
75	2094.818	1819.016	1715.392	1624.520	1710.609
80	996.394	859.290	809.869	792.332	841.753
85	251.888	234.352	231.163	240.729	250.294
90	0.000	0.000	0.000	0.000	0.000

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ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixt
0-20	6203.85	N.A.	14.20
0-30	13273.65	N.A.	30.50
0-40	21790.39	N.A.	50.00
0-60	36944.2	N.A.	84.80
0-80	43183.8	N.A.	99.20
0-90	43544.01	N.A.	100.00
10-90	41949.79	N.A.	96.30
20-40	15586.54	N.A.	35.80
20-50	23974.39	N.A.	55.10
40-70	19465.36	N.A.	44.70
60-80	6239.6	N.A.	14.30
70-80	1928.05	N.A.	4.40
80-90	360.21	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	43544.01	N.A.	100.00

Total Luminaire Efficiency = N.A.%

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	1594.23
10-20	4609.62
20-30	7069.8
30-40	8516.74
40-50	8387.85
50-60	6765.97
60-70	4311.55
70-80	1928.05
80-90	360.21
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	22.6	24.1	22.9	24.5	24.8	21.1	22.7	21.5	23.0	23.3
	3H	23.8	25.2	24.2	25.5	25.9	22.4	23.8	22.8	24.1	24.5
	4H	24.2	25.5	24.6	25.9	26.2	22.8	24.1	23.2	24.4	24.8
	6H	24.4	25.6	24.8	26.0	26.4	23.0	24.2	23.4	24.6	25.0
	8H	24.4	25.6	24.9	26.0	26.4	23.1	24.2	23.5	24.6	25.0
	12H	24.4	25.5	24.8	25.9	26.3	23.1	24.2	23.5	24.5	25.0
4H	2H	22.9	24.2	23.3	24.5	24.9	21.6	23.0	22.0	23.3	23.7
	3H	24.3	25.4	24.7	25.8	26.2	23.1	24.2	23.5	24.6	25.0
	4H	24.8	25.7	25.2	26.1	26.6	23.6	24.5	24.0	25.0	25.4
	6H	25.0	25.9	25.5	26.3	26.8	23.9	24.7	24.3	25.2	25.6
	8H	25.1	25.9	25.6	26.3	26.8	23.9	24.7	24.4	25.2	25.6
	12H	25.1	25.8	25.6	26.3	26.8	24.0	24.7	24.4	25.1	25.6
8H	4H	24.8	25.6	25.3	26.1	26.6	23.8	24.5	24.2	25.0	25.5
	6H	25.2	25.8	25.7	26.3	26.8	24.1	24.8	24.6	25.2	25.7
	8H	25.2	25.8	25.8	26.3	26.8	24.2	24.8	24.7	25.3	25.8
	12H	25.3	25.8	25.8	26.3	26.9	24.3	24.8	24.8	25.3	25.8
12H	4H	24.8	25.5	25.3	26.0	26.5	23.8	24.5	24.2	24.9	25.4
	6H	25.2	25.8	25.7	26.2	26.8	24.1	24.7	24.6	25.2	25.7
	8H	25.3	25.8	25.8	26.3	26.8	24.2	24.7	24.7	25.2	25.8

Maximum UGR = 26.9

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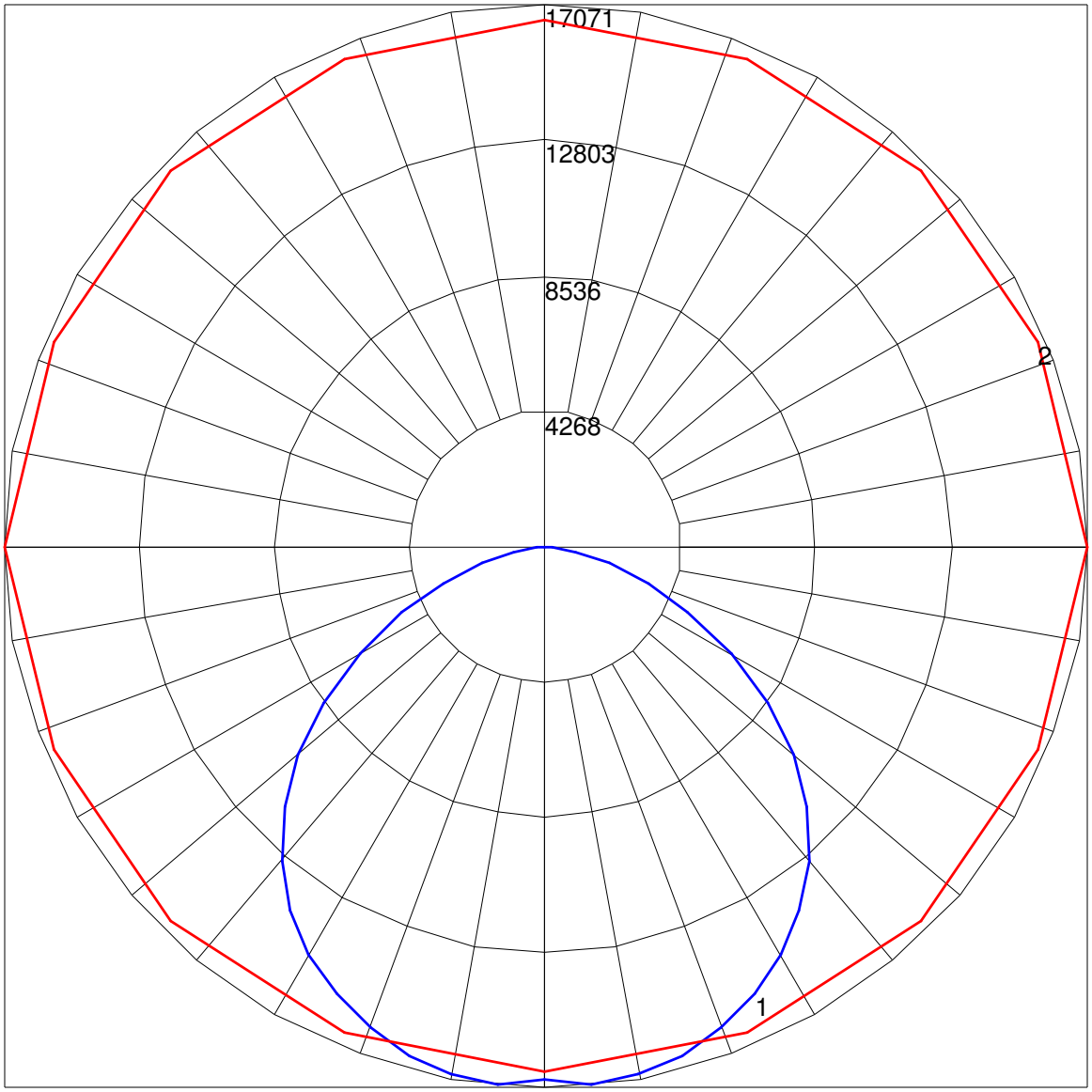
POLAR GRAPH



Maximum Candela = 17071.015 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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