H.E. WILLIAMS, INC.

IES INDOOR REPORT
PHOTOMETRIC FILENAME : GL-8-L300-835-SCHA118-DIM-UNV_.IES

DESCRIPTION INFORMATION (From Photometric File)

IESNA:LM-63-2002
[TEST] GEN FROM BALLABS TEST NO. 19725.0
[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 CLEAR ACRYLIC LENS
[MORE] 0-10V UNIVERSAL VOLTAGE 122-277V DRIVERS
[LUMCAT] GL-8-L300-835-SCHA118-DIM-UNV_
[LAMPCAT] 22 INCH HLM LINEAR 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	27005
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	141
Total Luminaire Watts	192
Ballast Factor	1.00
CIE Type	Direct
Spacing Criterion (0-180)	1.34
Spacing Criterion (90-270)	1.32
Spacing Criterion (Diagonal)	1.42
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	13878	13594	10377
55	13167	9653	9779
65	11040	8561	8371
75	7167	4823	3561
85	1428	1458	1220

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CANDELA TABULATION

	0.0	22.5	45.0	67.5	90.0
0	10120.165	10120.165	10120.165	10120.165	10120.165
5	10232.997	10116.307	10043.014	10005.404	10015.048
10	10143.310	10026.620	9964.900	9923.432	9936.933
15	9968.758	9884.857	9822.172	9753.702	9778.775
20	9748.880	9628.333	9578.185	9517.429	9555.040
25	9454.745	9300.445	9287.908	9259.941	9265.727
30	9055.493	8913.730	8921.445	8879.012	8904.086
35	8544.374	8376.572	8460.473	8440.221	8446.007
40	7972.499	7784.445	7823.985	7926.209	7910.779
45	7300.328	7124.812	7150.850	6608.871	5458.370
50	6496.039	6393.815	6407.316	4720.622	4765.948
55	5618.456	5563.487	4118.851	4175.749	4172.856
60	4642.507	4595.253	3442.823	3509.365	3509.365
65	3470.790	3526.724	2691.574	2784.154	2631.783
70	2366.579	1874.747	1920.073	1766.737	1396.417
75	1380.022	1083.959	928.694	851.544	685.672
80	548.730	477.366	349.104	285.455	265.203
85	92.580	82.936	94.509	95.473	79.079
90	0.000	0.000	0.000	0.000	0.000

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ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixt
0-20	3736.00	N.A.	13.80
0-30	8024.32	N.A.	29.70
0-40	13303.24	N.A.	49.30
0-60	22833.66	N.A.	84.60
0-80	26853.24	N.A.	99.40
0-90	27005.35	N.A.	100.00
10-90	26046.31	N.A.	96.40
20-40	9567.24	N.A.	35.40
20-50	14833.15	N.A.	54.90
40-70	12446.69	N.A.	46.10
60-80	4019.59	N.A.	14.90
70-80	1103.32	N.A.	4.10
80-90	152.11	N.A.	0.60
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	27005.35	N.A.	100.00

Total Luminaire Efficiency = N.A.%

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	959.04
10-20	2776.96
20-30	4288.32
30-40	5278.92
40-50	5265.91
50-60	4264.51
60-70	2916.27
70-80	1103.32
80-90	152.11
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	78	84	80	77	81	78	75	73
3	92	82	74	68	90	81	73	68	78	72	67	75	70	65	72	68	64	62
4	84	73	65	58	82	72	64	58	69	62	57	67	61	56	65	60	56	53
5	78	65	57	50	76	64	56	50	62	55	50	60	54	49	58	53	49	46
6	72	59	50	44	70	58	50	44	56	49	44	55	48	43	53	47	43	41
7	67	54	45	39	65	53	45	39	51	44	39	50	43	38	48	43	38	36
8	62	49	41	35	61	48	40	35	47	40	35	46	39	34	44	39	34	32
9	58	45	37	31	57	44	37	31	43	36	31	42	36	31	41	35	31	29
10	54	41	34	28	53	41	33	28	40	33	28	39	33	28	38	32	28	26

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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	21.6	23.2	22.0	23.5	23.8	19.7	21.2	20.0	21.5	21.9
	3H	22.8	24.2	23.2	24.6	24.9	20.9	22.3	21.3	22.6	23.0
	4H	23.2	24.5	23.6	24.8	25.2	21.1	22.4	21.5	22.8	23.1
	6H	23.3	24.5	23.7	24.9	25.3	21.1	22.4	21.6	22.7	23.1
	8H	23.3	24.5	23.7	24.9	25.3	21.1	22.3	21.5	22.7	23.1
	12H	23.3	24.4	23.7	24.8	25.2	21.1	22.2	21.5	22.6	23.0
4H	2H	21.9	23.2	22.3	23.5	23.9	20.2	21.5	20.6	21.9	22.3
	3H	23.2	24.3	23.6	24.7	25.1	21.6	22.7	22.0	23.1	23.5
	4H	23.6	24.6	24.1	25.0	25.5	21.9	22.9	22.3	23.3	23.7
	6H	23.8	24.7	24.3	25.1	25.6	22.0	22.8	22.5	23.3	23.7
	8H	23.9	24.7	24.3	25.1	25.6	22.0	22.8	22.5	23.2	23.7
	12H	23.9	24.6	24.3	25.0	25.5	22.0	22.7	22.5	23.2	23.6
8H	4H	23.7	24.5	24.1	24.9	25.4	22.0	22.8	22.5	23.3	23.7
	6H	23.9	24.6	24.4	25.1	25.5	22.1	22.8	22.6	23.3	23.8
	8H	24.0	24.5	24.5	25.0	25.5	22.2	22.7	22.7	23.2	23.7
	12H	24.0	24.5	24.5	25.0	25.5	22.2	22.7	22.7	23.2	23.7
12H	4H	23.7	24.4	24.1	24.8	25.3	22.0	22.7	22.5	23.2	23.7
	6H	23.9	24.5	24.4	24.9	25.5	22.1	22.7	22.7	23.2	23.7
	8H	23.9	24.5	24.4	24.9	25.5	22.2	22.7	22.7	23.2	23.7

Maximum UGR = 25.6

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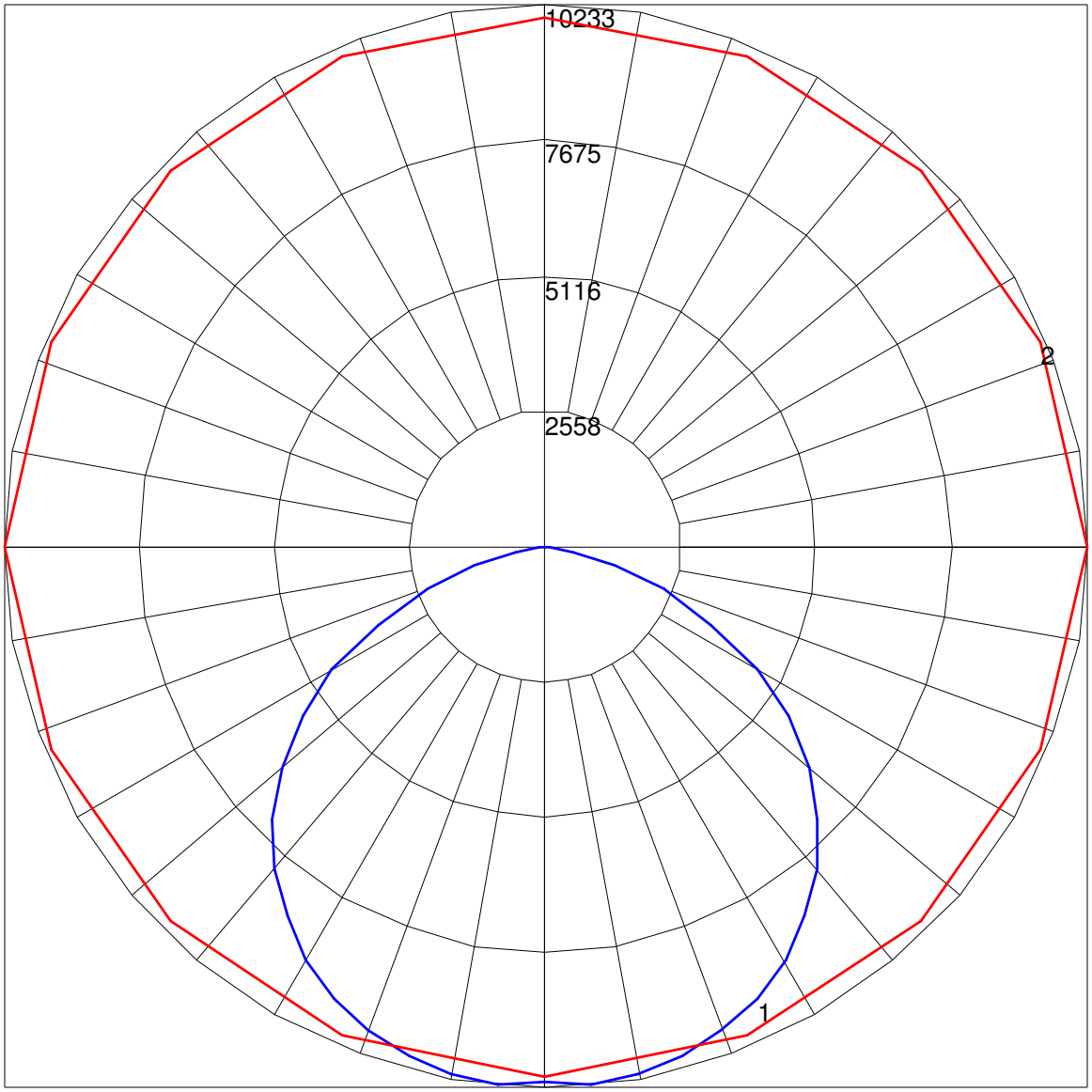
POLAR GRAPH



Maximum Candela = 10232.997 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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