H.E. WILLIAMS, INC.

IES INDOOR REPORT
PHOTOMETRIC FILENAME : GL-8-L300-830-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-L300-830-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	26727
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	139
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	13735	13454	10270
55	13032	9553	9679
65	10926	8473	8285
75	7094	4774	3524
85	1413	1443	1207

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CANDELA TABULATION

	0.0	22.5	45.0	67.5	90.0
0	10015.833	10015.833	10015.833	10015.833	10015.833
5	10127.502	10012.016	9939.479	9902.256	9911.800
10	10038.740	9923.253	9862.169	9821.129	9834.491
15	9865.987	9782.951	9720.913	9653.148	9677.964
20	9648.376	9529.072	9479.441	9419.312	9456.535
25	9357.274	9204.564	9192.157	9164.478	9170.205
30	8962.138	8821.836	8829.471	8787.476	8812.292
35	8456.288	8290.216	8373.252	8353.209	8358.935
40	7890.308	7704.193	7743.325	7844.495	7829.224
45	7225.067	7051.360	7077.130	6540.738	5402.098
50	6429.069	6327.899	6341.261	4671.956	4716.814
55	5560.534	5506.131	4076.389	4132.700	4129.837
60	4594.647	4547.879	3407.330	3473.186	3473.186
65	3435.009	3490.366	2663.826	2755.452	2604.651
70	2342.182	1855.420	1900.279	1748.524	1382.021
75	1365.795	1072.784	919.120	842.765	678.603
80	543.073	472.445	345.505	282.513	262.469
85	91.626	82.081	93.535	94.489	78.264
90	0.000	0.000	0.000	0.000	0.000

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ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixt
0-20	3697.48	N.A.	13.80
0-30	7941.59	N.A.	29.70
0-40	13166.09	N.A.	49.30
0-60	22598.26	N.A.	84.60
0-80	26576.4	N.A.	99.40
0-90	26726.94	N.A.	100.00
10-90	25777.79	N.A.	96.40
20-40	9468.61	N.A.	35.40
20-50	14680.23	N.A.	54.90
40-70	12318.37	N.A.	46.10
60-80	3978.15	N.A.	14.90
70-80	1091.94	N.A.	4.10
80-90	150.54	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	26726.94	N.A.	100.00

Total Luminaire Efficiency = N.A.%

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	949.15
10-20	2748.33
20-30	4244.11
30-40	5224.5
40-50	5211.62
50-60	4220.55
60-70	2886.2
70-80	1091.94
80-90	150.54
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	21.5	23.1	21.9	23.4	23.7	19.6	21.1	19.9	21.4	21.8
	3H	22.7	24.1	23.1	24.5	24.8	20.8	22.2	21.2	22.5	22.9
	4H	23.1	24.4	23.5	24.7	25.1	21.0	22.3	21.4	22.7	23.0
	6H	23.2	24.4	23.6	24.8	25.2	21.0	22.3	21.5	22.6	23.0
	8H	23.2	24.4	23.6	24.8	25.2	21.0	22.2	21.4	22.6	23.0
	12H	23.2	24.3	23.6	24.7	25.1	21.0	22.1	21.4	22.5	22.9
4H	2H	21.8	23.1	22.2	23.4	23.8	20.1	21.4	20.5	21.8	22.2
	3H	23.1	24.2	23.5	24.6	25.0	21.5	22.6	21.9	23.0	23.4
	4H	23.5	24.5	24.0	24.9	25.4	21.8	22.8	22.2	23.2	23.6
	6H	23.7	24.6	24.2	25.0	25.5	21.9	22.7	22.4	23.2	23.6
	8H	23.8	24.6	24.2	25.0	25.5	21.9	22.7	22.4	23.1	23.6
	12H	23.8	24.5	24.2	24.9	25.4	21.9	22.6	22.4	23.1	23.5
8H	4H	23.6	24.4	24.0	24.8	25.3	21.9	22.7	22.4	23.2	23.6
	6H	23.8	24.5	24.3	25.0	25.4	22.0	22.7	22.5	23.2	23.7
	8H	23.9	24.4	24.4	24.9	25.4	22.1	22.6	22.6	23.1	23.6
	12H	23.9	24.4	24.4	24.9	25.4	22.1	22.6	22.6	23.1	23.6
12H	4H	23.6	24.3	24.0	24.7	25.2	21.9	22.6	22.4	23.1	23.6
	6H	23.8	24.4	24.3	24.8	25.4	22.0	22.6	22.6	23.1	23.6
	8H	23.8	24.4	24.3	24.8	25.4	22.1	22.6	22.6	23.1	23.6

Maximum UGR = 25.5

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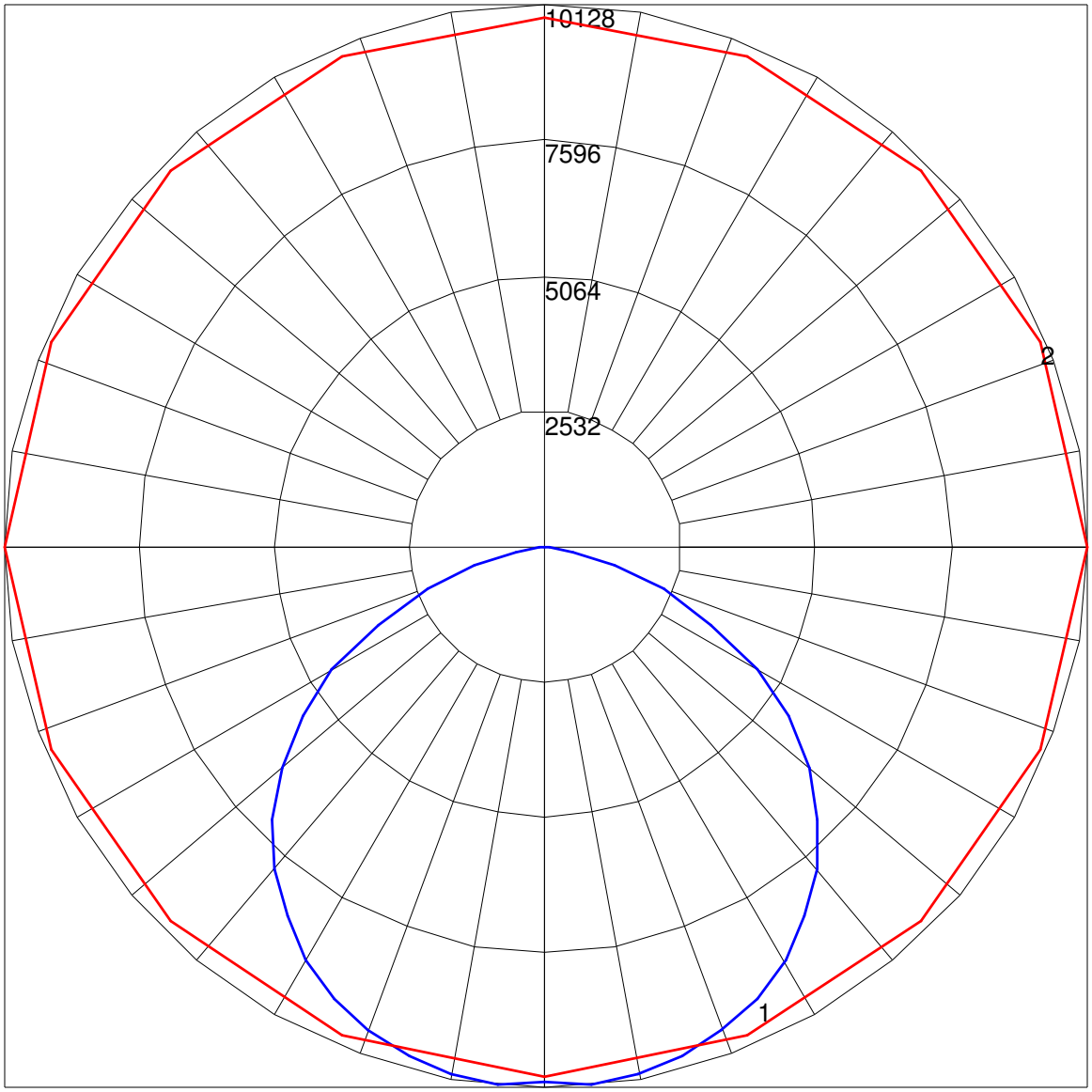
POLAR GRAPH



Maximum Candela = 10127.502 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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