H.E. WILLIAMS, INC.

IES INDOOR REPORT
PHOTOMETRIC FILENAME : GL-8-L400-835-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-L400-835-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	36060
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	136
Total Luminaire Watts	266
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	18532	18152	13856
55	17582	12890	13059
65	14741	11432	11178
75	9571	6441	4755
85	1907	1946	1629

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CANDELA TABULATION

	0.0	22.5	45.0	67.5	90.0
0	13513.502	13513.502	13513.502	13513.502	13513.502
5	13664.167	13508.351	13410.483	13360.262	13373.139
10	13544.408	13388.592	13306.177	13250.804	13268.832
15	13311.328	13199.295	13115.592	13024.162	13057.644
20	13017.724	12856.757	12789.795	12708.667	12758.889
25	12624.964	12418.927	12402.186	12364.842	12372.568
30	12091.842	11902.544	11912.846	11856.186	11889.667
35	11409.341	11185.275	11297.308	11270.266	11277.992
40	10645.714	10394.605	10447.403	10583.903	10563.299
45	9748.162	9513.794	9548.563	8824.855	7288.586
50	8674.190	8537.690	8555.718	6303.468	6363.992
55	7502.350	7428.949	5499.921	5575.897	5572.034
60	6199.161	6136.062	4597.218	4686.072	4686.072
65	4634.562	4709.251	3594.071	3717.694	3514.232
70	3160.104	2503.359	2563.882	2359.132	1864.642
75	1842.750	1447.415	1240.090	1137.071	915.580
80	732.722	637.429	466.160	381.170	354.127
85	123.623	110.745	126.198	127.486	105.594
90	0.000	0.000	0.000	0.000	0.000

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ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixt
0-20	4988.69	N.A.	13.80
0-30	10714.91	N.A.	29.70
0-40	17763.87	N.A.	49.30
0-60	30489.88	N.A.	84.60
0-80	35857.26	N.A.	99.40
0-90	36060.37	N.A.	100.00
10-90	34779.76	N.A.	96.40
20-40	12775.18	N.A.	35.40
20-50	19806.77	N.A.	54.90
40-70	16620.12	N.A.	46.10
60-80	5367.37	N.A.	14.90
70-80	1473.27	N.A.	4.10
80-90	203.11	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	36060.37	N.A.	100.00

Total Luminaire Efficiency = N.A.%

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	1280.61
10-20	3708.09
20-30	5726.22
30-40	7048.97
40-50	7031.59
50-60	5694.42
60-70	3894.11
70-80	1473.27
80-90	203.11
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	22.6	24.2	23.0	24.5	24.8	20.7	22.2	21.0	22.5	22.9
	3H	23.8	25.2	24.2	25.6	25.9	21.9	23.3	22.3	23.6	24.0
	4H	24.2	25.5	24.6	25.8	26.2	22.1	23.4	22.5	23.8	24.1
	6H	24.3	25.5	24.7	25.9	26.3	22.1	23.4	22.6	23.7	24.1
	8H	24.3	25.5	24.7	25.9	26.3	22.1	23.3	22.5	23.7	24.1
	12H	24.3	25.4	24.7	25.8	26.2	22.1	23.2	22.5	23.6	24.0
4H	2H	22.9	24.2	23.3	24.5	24.9	21.2	22.5	21.6	22.9	23.3
	3H	24.2	25.3	24.6	25.7	26.1	22.6	23.7	23.0	24.1	24.5
	4H	24.6	25.6	25.1	26.0	26.5	22.9	23.9	23.3	24.3	24.7
	6H	24.8	25.7	25.3	26.1	26.6	23.0	23.8	23.5	24.3	24.7
	8H	24.9	25.7	25.3	26.1	26.6	23.0	23.8	23.5	24.2	24.7
	12H	24.9	25.6	25.3	26.0	26.5	23.0	23.7	23.5	24.2	24.6
8H	4H	24.7	25.5	25.1	25.9	26.4	23.0	23.8	23.5	24.3	24.7
	6H	24.9	25.6	25.4	26.1	26.5	23.1	23.8	23.6	24.3	24.8
	8H	25.0	25.5	25.5	26.0	26.5	23.2	23.7	23.7	24.2	24.7
	12H	25.0	25.5	25.5	26.0	26.5	23.2	23.7	23.7	24.2	24.7
12H	4H	24.7	25.4	25.1	25.8	26.3	23.0	23.7	23.5	24.2	24.7
	6H	24.9	25.5	25.4	25.9	26.5	23.1	23.7	23.7	24.2	24.7
	8H	24.9	25.5	25.4	25.9	26.5	23.2	23.7	23.7	24.2	24.7

Maximum UGR = 26.6

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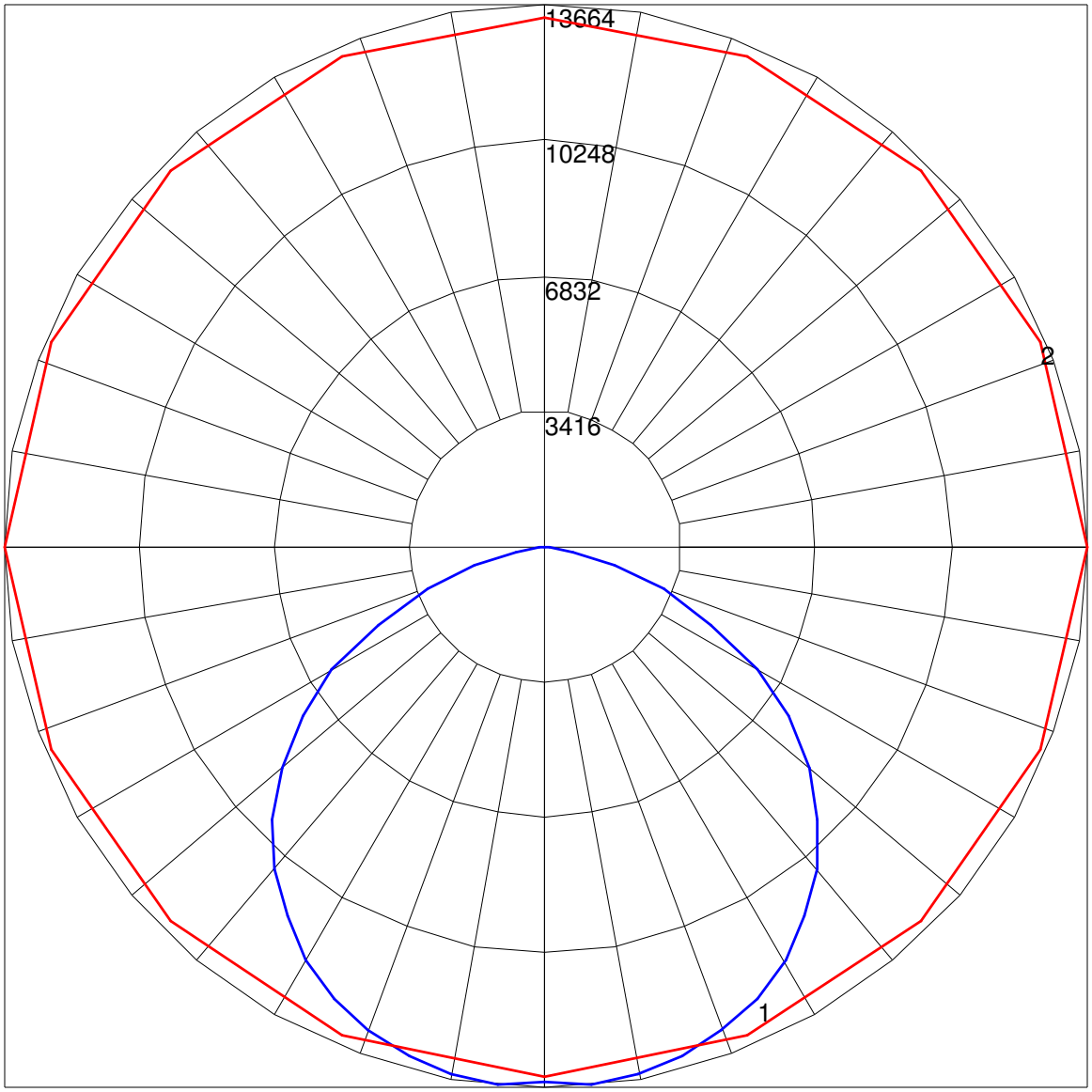
POLAR GRAPH



Maximum Candela = 13664.167 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.)