H.E. WILLIAMS, INC.

IES INDOOR REPORT
PHOTOMETRIC FILENAME : GL-8-L400-840-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-L400-840-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	37176
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	140
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	19105	18713	14284
55	18126	13288	13462
65	15197	11785	11523
75	9867	6640	4902
85	1966	2007	1679

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CANDELA TABULATION

	0.0	22.5	45.0	67.5	90.0
0	13931.447	13931.447	13931.447	13931.447	13931.447
5	14086.771	13926.136	13825.242	13773.467	13786.742
10	13963.308	13802.673	13717.709	13660.624	13679.210
15	13723.019	13607.521	13521.230	13426.973	13461.489
20	13420.335	13254.389	13185.356	13101.720	13153.495
25	13015.428	12803.018	12785.760	12747.260	12755.226
30	12465.817	12270.665	12281.286	12222.873	12257.390
35	11762.209	11531.213	11646.711	11618.832	11626.797
40	10974.964	10716.089	10770.519	10911.241	10890.000
45	10049.652	9808.036	9843.880	9097.790	7514.007
50	8942.465	8801.743	8820.329	6498.421	6560.817
55	7734.382	7658.711	5670.022	5748.348	5744.365
60	6390.889	6325.838	4739.400	4831.002	4831.002
65	4777.899	4854.898	3705.228	3832.675	3622.920
70	3257.840	2580.783	2643.178	2432.096	1922.311
75	1899.743	1492.181	1278.443	1172.238	943.897
80	755.383	657.144	480.578	392.959	365.080
85	127.446	114.170	130.101	131.429	108.860
90	0.000	0.000	0.000	0.000	0.000

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ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixt
0-20	5142.98	N.A.	13.80
0-30	11046.3	N.A.	29.70
0-40	18313.27	N.A.	49.30
0-60	31432.87	N.A.	84.60
0-80	36966.25	N.A.	99.40
0-90	37175.64	N.A.	100.00
10-90	35855.43	N.A.	96.40
20-40	13170.29	N.A.	35.40
20-50	20419.36	N.A.	54.90
40-70	17134.14	N.A.	46.10
60-80	5533.38	N.A.	14.90
70-80	1518.83	N.A.	4.10
80-90	209.39	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	37175.64	N.A.	100.00

Total Luminaire Efficiency = N.A.%

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	1320.21
10-20	3822.77
20-30	5903.32
30-40	7266.98
40-50	7249.07
50-60	5870.54
60-70	4014.54
70-80	1518.83
80-90	209.39
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	22.7	24.3	23.1	24.6	24.9	20.8	22.3	21.1	22.6	23.0
	3H	23.9	25.3	24.3	25.7	26.0	22.0	23.4	22.4	23.7	24.1
	4H	24.3	25.6	24.7	25.9	26.3	22.2	23.5	22.6	23.9	24.2
	6H	24.4	25.6	24.8	26.0	26.4	22.2	23.5	22.7	23.8	24.2
	8H	24.4	25.6	24.8	26.0	26.4	22.2	23.4	22.6	23.8	24.2
	12H	24.4	25.5	24.8	25.9	26.3	22.2	23.3	22.6	23.7	24.1
4H	2H	23.0	24.3	23.4	24.6	25.0	21.3	22.6	21.7	23.0	23.4
	3H	24.3	25.4	24.7	25.8	26.2	22.7	23.8	23.1	24.2	24.6
	4H	24.7	25.7	25.2	26.1	26.6	23.0	24.0	23.4	24.4	24.8
	6H	24.9	25.8	25.4	26.2	26.7	23.1	23.9	23.6	24.4	24.8
	8H	25.0	25.8	25.4	26.2	26.7	23.1	23.9	23.6	24.3	24.8
	12H	25.0	25.7	25.4	26.1	26.6	23.1	23.8	23.6	24.3	24.7
8H	4H	24.8	25.6	25.2	26.0	26.5	23.1	23.9	23.6	24.4	24.8
	6H	25.0	25.7	25.5	26.2	26.6	23.2	23.9	23.7	24.4	24.9
	8H	25.1	25.6	25.6	26.1	26.6	23.3	23.8	23.8	24.3	24.8
	12H	25.1	25.6	25.6	26.1	26.6	23.3	23.8	23.8	24.3	24.8
12H	4H	24.8	25.5	25.2	25.9	26.4	23.1	23.8	23.6	24.3	24.8
	6H	25.0	25.6	25.5	26.0	26.6	23.2	23.8	23.8	24.3	24.8
	8H	25.0	25.6	25.5	26.0	26.6	23.3	23.8	23.8	24.3	24.8

Maximum UGR = 26.7

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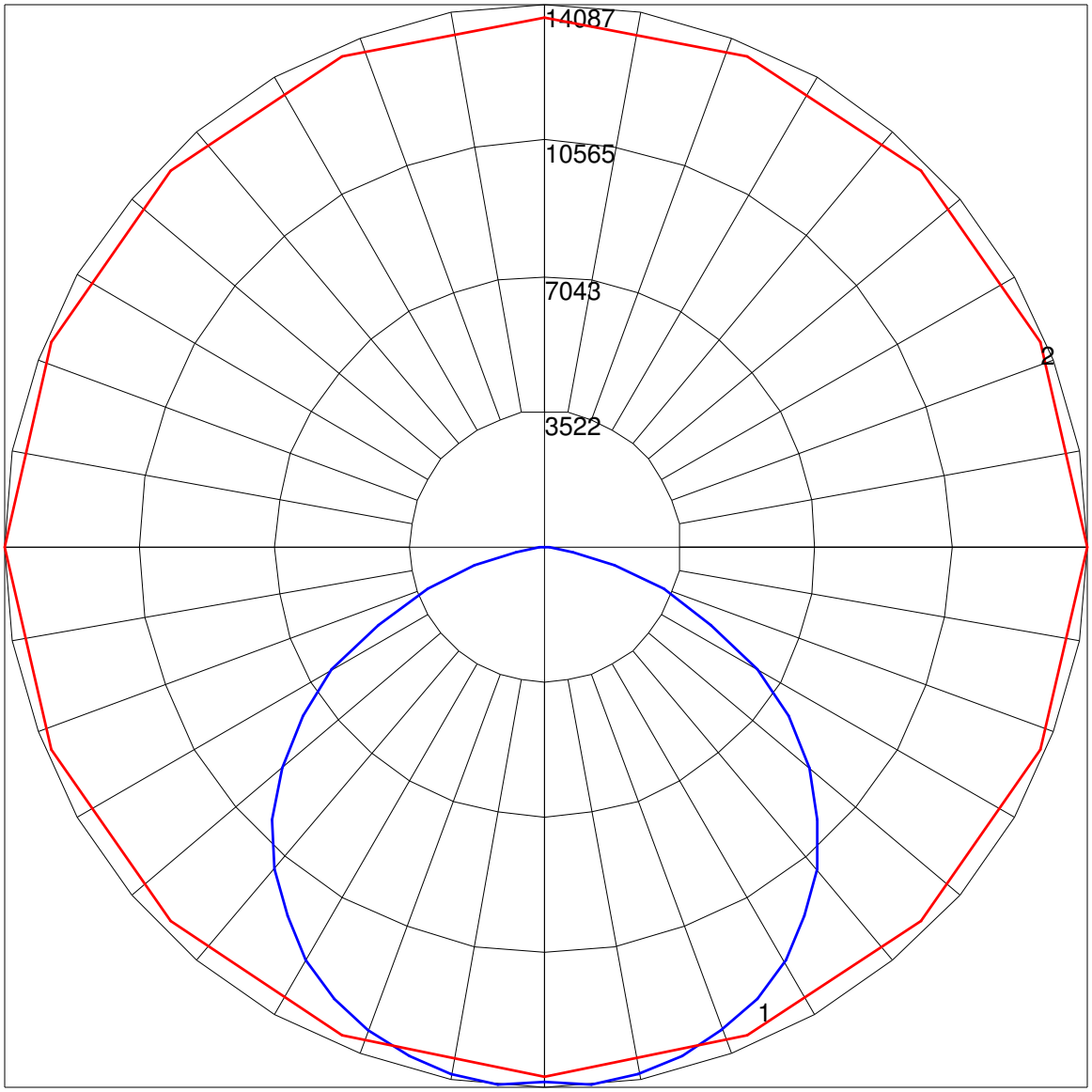
POLAR GRAPH



Maximum Candela = 14086.771 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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