H.E. WILLIAMS, INC.

IES INDOOR REPORT
PHOTOMETRIC FILENAME : GL-8-L600-940-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-L600-940-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	46278
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	116
Total Luminaire Watts	400
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	23783	23296	17782
55	22565	16542	16759
65	18918	14671	14345
75	12283	8266	6103
85	2447	2498	2090

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CANDELA TABULATION

	0.0	22.5	45.0	67.5	90.0
0	17342.658	17342.658	17342.658	17342.658	17342.658
5	17536.015	17336.047	17210.448	17145.995	17162.521
10	17382.321	17182.353	17076.585	17005.522	17028.659
15	17083.195	16939.417	16831.996	16714.660	16757.628
20	16706.397	16499.818	16413.882	16309.766	16374.219
25	16202.346	15937.926	15916.441	15868.515	15878.431
30	15518.158	15275.222	15288.443	15215.728	15258.696
35	14642.267	14354.710	14498.488	14463.783	14473.699
40	13662.259	13339.997	13407.755	13582.933	13556.491
45	12510.379	12209.601	12254.222	11325.446	9353.863
50	11132.089	10956.911	10980.047	8089.604	8167.278
55	9628.199	9534.000	7058.366	7155.871	7150.913
60	7955.742	7874.763	5899.875	6013.906	6013.906
65	5947.801	6043.653	4612.479	4771.131	4510.016
70	4055.544	3212.705	3290.378	3027.611	2393.003
75	2364.908	1857.552	1591.479	1459.269	1175.017
80	940.344	818.050	598.251	489.177	454.472
85	158.652	142.126	161.957	163.610	135.515
90	0.000	0.000	0.000	0.000	0.000

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ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixt
0-20	6402.28	N.A.	13.80
0-30	13751.06	N.A.	29.70
0-40	22797.4	N.A.	49.30
0-60	39129.43	N.A.	84.60
0-80	46017.69	N.A.	99.40
0-90	46278.35	N.A.	100.00
10-90	44634.88	N.A.	96.40
20-40	16395.13	N.A.	35.40
20-50	25419.18	N.A.	54.90
40-70	21329.56	N.A.	46.10
60-80	6888.26	N.A.	14.90
70-80	1890.73	N.A.	4.10
80-90	260.66	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	46278.35	N.A.	100.00

Total Luminaire Efficiency = N.A.%

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	1643.48
10-20	4758.8
20-30	7348.78
30-40	9046.34
40-50	9024.05
50-60	7307.98
60-70	4997.53
70-80	1890.73
80-90	260.66
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	23.4	25.0	23.8	25.3	25.6	21.5	23.0	21.8	23.3	23.7
	3H	24.6	26.0	25.0	26.4	26.7	22.7	24.1	23.1	24.4	24.8
	4H	25.0	26.3	25.4	26.6	27.0	22.9	24.2	23.3	24.6	24.9
	6H	25.1	26.3	25.5	26.7	27.1	22.9	24.2	23.4	24.5	24.9
	8H	25.1	26.3	25.5	26.7	27.1	22.9	24.1	23.3	24.5	24.9
	12H	25.1	26.2	25.5	26.6	27.0	22.9	24.0	23.3	24.4	24.8
4H	2H	23.7	25.0	24.1	25.3	25.7	22.0	23.3	22.4	23.7	24.1
	3H	25.0	26.1	25.4	26.5	26.9	23.4	24.5	23.8	24.9	25.3
	4H	25.4	26.4	25.9	26.8	27.3	23.7	24.7	24.1	25.1	25.5
	6H	25.6	26.5	26.1	26.9	27.4	23.8	24.6	24.3	25.1	25.5
	8H	25.7	26.5	26.1	26.9	27.4	23.8	24.6	24.3	25.0	25.5
	12H	25.7	26.4	26.1	26.8	27.3	23.8	24.5	24.3	25.0	25.4
8H	4H	25.5	26.3	25.9	26.7	27.2	23.8	24.6	24.3	25.1	25.5
	6H	25.7	26.4	26.2	26.9	27.3	23.9	24.6	24.4	25.1	25.6
	8H	25.8	26.3	26.3	26.8	27.3	24.0	24.5	24.5	25.0	25.5
	12H	25.8	26.3	26.3	26.8	27.3	24.0	24.5	24.5	25.0	25.5
12H	4H	25.5	26.2	25.9	26.6	27.1	23.8	24.5	24.3	25.0	25.5
	6H	25.7	26.3	26.2	26.7	27.3	23.9	24.5	24.5	25.0	25.5
	8H	25.7	26.3	26.2	26.7	27.3	24.0	24.5	24.5	25.0	25.5

Maximum UGR = 27.4

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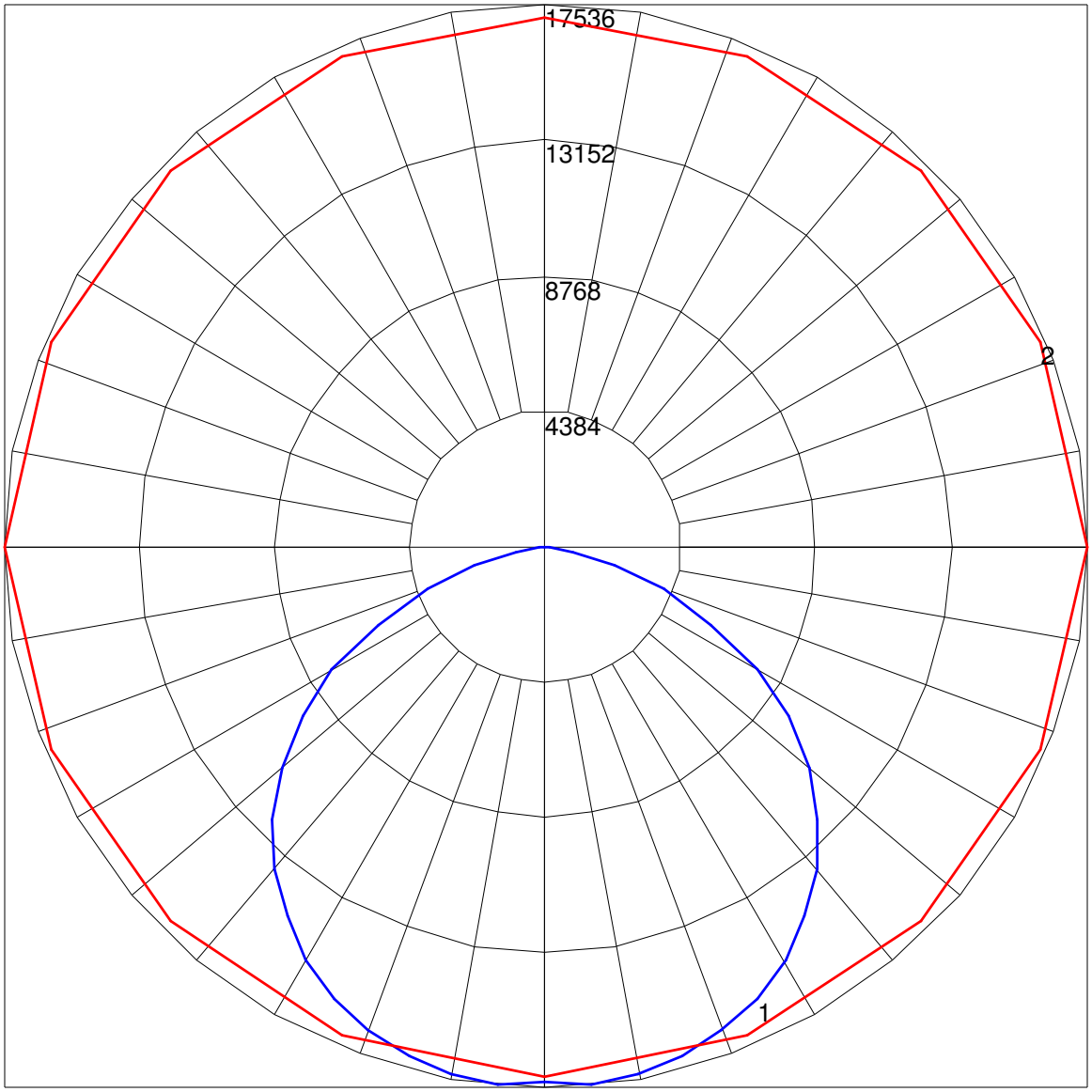
POLAR GRAPH



Maximum Candela = 17536.015 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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