H.E. WILLIAMS, INC.

IES INDOOR REPORT
PHOTOMETRIC FILENAME : GL-8-L600-940-ND-DIM-UNV_.IES

DESCRIPTION INFORMATION (From Photometric File)

IESNA:LM-63-2002
[TEST] GEN FROM BALLABS TEST NO. 19459.0
[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 REFL w/CLEAR ACRYLIC ROD DIFFUSERS OVER LED
[MORE] 0-10V UNIVERSAL VOLTAGE 120-277 DRIVERS
[LUMCAT] GL-8-L600-940-ND-DIM-UNV
[LAMPCAT] 22 INCH HLM LED ARRAYS
[_SEARCH_SOURCETYPE] LED
[_SEARCH_APPLICATION] Indoor, Commercial, Industrial, Manufacturing, Warehouse, High Bay
[_SEARCH_MOUNTING] Pendant, Suspended

CHARACTERISTICS

Lumens Per Lamp	N.A. (absolute)
Total Lamp Lumens	N.A. (absolute)
Luminaire Lumens	47529
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	122
Total Luminaire Watts	390
Ballast Factor	1.00
CIE Type	Direct
Spacing Criterion (0-180)	1.32
Spacing Criterion (90-270)	0.58
Spacing Criterion (Diagonal)	0.72
Basic Luminous Shape	Rectangular
Luminous Length (0-180)	8.00 ft
Luminous Width (90-270)	1.04 ft
Luminous Height	0.00 ft

LUMINANCE DATA (cd/sq.m)

Angle In Degrees	Average 0-Deg	Average 45-Deg	Average 90-Deg
45	58530	6246	4617
55	40110	4636	3466
65	24272	3515	3567
75	11886	3883	3238
85	4557	1435	1435

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CANDELA TABULATION

	0.0	22.5	45.0	67.5	90.0
0	47935.620	47935.620	47935.620	47935.620	47935.620
5	46864.072	46491.582	45744.900	45127.484	44770.301
10	46491.582	44965.901	41589.674	38686.289	38150.515
15	45858.858	42499.640	36073.753	31171.845	29549.215
20	46637.856	38929.513	27213.921	19862.760	17525.765
25	44527.077	33558.166	19927.393	13469.190	11554.010
30	43521.863	26904.362	12105.092	7432.802	6410.579
35	39691.503	19294.670	7155.560	4689.299	4252.175
40	37111.283	13225.965	4641.674	3520.801	3294.585
45	32081.811	8244.117	3423.851	2677.169	2530.895
50	24745.958	5532.930	2694.178	2190.721	2061.454
55	17833.622	4105.900	2061.454	1687.263	1540.988
60	12268.376	2920.394	1607.322	1411.722	1314.773
65	7951.567	1801.221	1151.489	1217.823	1168.498
70	4706.307	1297.764	989.906	1022.223	908.265
75	2384.620	972.898	778.998	697.357	649.732
80	1151.489	714.365	486.449	307.857	260.233
85	307.857	227.917	96.950	96.950	96.950
90	0.000	0.000	0.000	0.000	0.000

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ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixt
0-20	14399.91	N.A.	30.30
0-30	25251.67	N.A.	53.10
0-40	33785.88	N.A.	71.10
0-60	43976.37	N.A.	92.50
0-80	47292.98	N.A.	99.50
0-90	47528.55	N.A.	100.00
10-90	43271.22	N.A.	91.00
20-40	19385.97	N.A.	40.80
20-50	25578.64	N.A.	53.80
40-70	12434.71	N.A.	26.20
60-80	3316.61	N.A.	7.00
70-80	1072.39	N.A.	2.30
80-90	235.57	N.A.	0.50
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	47528.55	N.A.	100.00

Total Luminaire Efficiency = N.A.%

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	4257.33
10-20	10142.58
20-30	10851.76
30-40	8534.21
40-50	6192.66
50-60	3997.82
60-70	2244.22
70-80	1072.39
80-90	235.57
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	112	108	105	102	109	106	103	101	102	100	98	98	96	95	95	93	92	90
2	105	98	93	89	102	97	92	88	93	89	86	90	87	84	87	85	82	81
3	98	90	84	79	96	88	83	78	86	81	77	83	79	75	81	77	74	72
4	92	82	76	70	90	81	75	70	79	73	69	77	72	68	75	71	67	66
5	86	76	69	64	84	75	68	63	73	67	63	71	66	62	69	65	62	60
6	81	70	63	58	79	69	63	58	68	62	57	66	61	57	65	60	56	55
7	76	65	58	53	75	65	58	53	63	57	53	62	56	52	61	56	52	51
8	72	61	54	49	71	60	54	49	59	53	49	58	53	49	57	52	48	47
9	68	57	50	46	67	57	50	46	56	50	45	55	49	45	54	49	45	44
10	65	54	47	43	64	53	47	43	52	46	42	51	46	42	51	46	42	41

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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	20.4	21.7	20.8	22.1	22.4	13.5	13.5	13.5	13.5	13.5
	3H	22.3	23.5	22.7	23.8	24.1	13.5	14.7	13.9	15.0	15.4
	4H	22.8	23.9	23.2	24.2	24.6	14.3	15.3	14.7	15.7	16.1
	6H	23.1	24.1	23.6	24.5	24.9	14.6	15.6	15.0	15.9	16.3
	8H	23.2	24.1	23.6	24.5	24.9	14.6	15.6	15.1	16.0	16.4
	12H	23.2	24.1	23.7	24.5	24.9	14.6	15.5	15.1	15.9	16.3
4H	2H	20.3	21.4	20.7	21.7	22.1	13.5	13.5	13.5	13.5	13.9
	3H	22.2	23.1	22.6	23.5	23.9	14.4	15.3	14.9	15.7	16.1
	4H	22.8	23.5	23.2	24.0	24.4	15.3	16.1	15.7	16.5	16.9
	6H	23.2	23.9	23.7	24.3	24.8	15.7	16.4	16.2	16.8	17.3
	8H	23.3	23.9	23.8	24.4	24.9	15.8	16.4	16.2	16.9	17.3
	12H	23.4	23.9	23.8	24.4	24.9	15.8	16.4	16.3	16.8	17.3
8H	4H	22.7	23.3	23.1	23.8	24.2	15.7	16.4	16.2	16.8	17.3
	6H	23.2	23.7	23.7	24.2	24.7	16.2	16.8	16.7	17.3	17.7
	8H	23.3	23.8	23.8	24.3	24.8	16.4	16.8	16.9	17.3	17.8
	12H	23.4	23.8	23.9	24.3	24.9	16.4	16.8	16.9	17.3	17.9
12H	4H	22.7	23.2	23.1	23.7	24.2	15.8	16.4	16.3	16.9	17.4
	6H	23.1	23.6	23.7	24.1	24.6	16.4	16.8	16.9	17.3	17.9
	8H	23.3	23.7	23.8	24.2	24.8	16.5	16.9	17.0	17.4	18.0

Maximum UGR = 24.9

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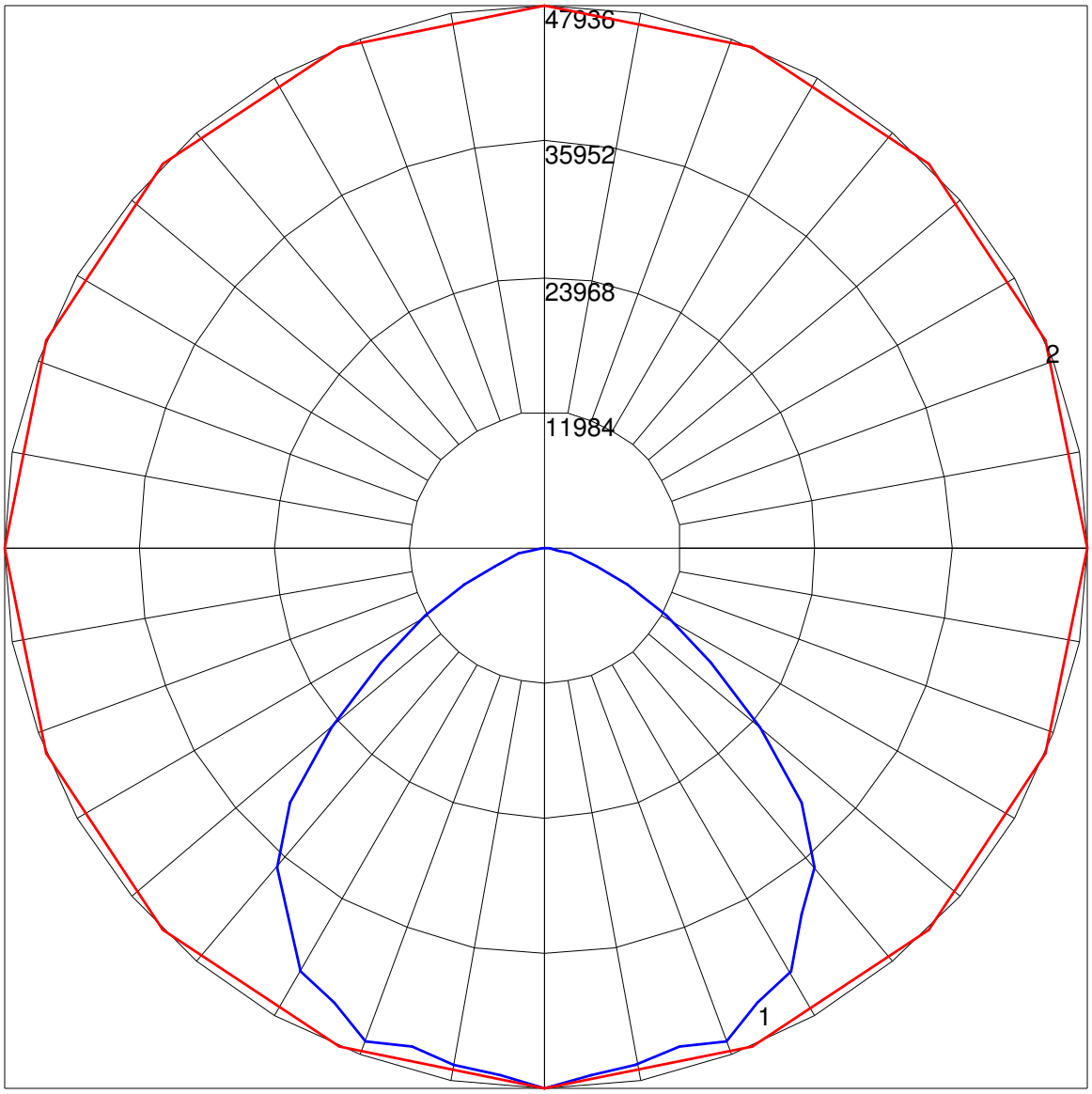
POLAR GRAPH



Maximum Candela = 47935.62 Located At Horizontal Angle = 0, Vertical Angle = 0
1 - Vertical Plane Through Horizontal Angles (0 - 180) (Through Max. Cd.)
2 - Horizontal Cone Through Vertical Angle (0) (Through Max. Cd.)

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