H.E. WILLIAMS, INC.

IES INDOOR REPORT
PHOTOMETRIC FILENAME : GL-8-L300-950-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-L300-950-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	24590
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	127
Total Luminaire Watts	194
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	30282	3232	2389
55	20752	2399	1793
65	12558	1819	1845
75	6149	2009	1675
85	2358	742	742

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CANDELA TABULATION

	0.0	22.5	45.0	67.5	90.0
0	24800.292	24800.292	24800.292	24800.292	24800.292
5	24245.909	24053.195	23666.887	23347.456	23162.662
10	24053.195	23263.859	21517.111	20014.997	19737.805
15	23725.845	21987.897	18663.357	16127.274	15287.779
20	24128.873	20140.833	14079.576	10276.330	9067.247
25	23036.826	17361.877	10309.769	6968.510	5977.660
30	22516.761	13919.420	6262.771	3845.484	3316.620
35	20535.061	9982.419	3702.048	2426.087	2199.934
40	19200.141	6842.674	2401.448	1821.545	1704.509
45	16598.060	4265.231	1771.387	1385.078	1309.401
50	12802.734	2862.554	1393.878	1133.406	1066.528
55	9226.522	2124.256	1066.528	872.934	797.256
60	6347.249	1510.914	831.575	730.378	680.219
65	4113.876	931.892	595.742	630.061	604.542
70	2434.887	671.420	512.145	528.864	469.906
75	1233.723	503.345	403.028	360.789	336.150
80	595.742	369.589	251.672	159.275	134.636
85	159.275	117.916	50.158	50.158	50.158
90	0.000	0.000	0.000	0.000	0.000

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ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixt
0-20	7450.03	N.A.	30.30
0-30	13064.37	N.A.	53.10
0-40	17479.69	N.A.	71.10
0-60	22751.91	N.A.	92.50
0-80	24467.81	N.A.	99.50
0-90	24589.69	N.A.	100.00
10-90	22387.09	N.A.	91.00
20-40	10029.66	N.A.	40.80
20-50	13233.53	N.A.	53.80
40-70	6433.31	N.A.	26.20
60-80	1715.9	N.A.	7.00
70-80	554.82	N.A.	2.30
80-90	121.87	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	24589.69	N.A.	100.00

Total Luminaire Efficiency = N.A.%

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	2202.6
10-20	5247.43
20-30	5614.34
30-40	4415.32
40-50	3203.88
50-60	2068.34
60-70	1161.09
70-80	554.82
80-90	121.87
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	18.1	19.4	18.5	19.8	20.1	11.2	11.2	11.2	11.2	11.2
	3H	20.0	21.2	20.4	21.5	21.8	11.2	12.4	11.6	12.7	13.1
	4H	20.5	21.6	20.9	21.9	22.3	12.0	13.0	12.4	13.4	13.8
	6H	20.8	21.8	21.3	22.2	22.6	12.3	13.3	12.7	13.6	14.0
	8H	20.9	21.8	21.3	22.2	22.6	12.3	13.3	12.8	13.7	14.1
	12H	20.9	21.8	21.4	22.2	22.6	12.3	13.2	12.8	13.6	14.0
4H	2H	18.0	19.1	18.4	19.4	19.8	11.2	11.2	11.2	11.2	11.6
	3H	19.9	20.8	20.3	21.2	21.6	12.1	13.0	12.6	13.4	13.8
	4H	20.5	21.2	20.9	21.7	22.1	13.0	13.8	13.4	14.2	14.6
	6H	20.9	21.6	21.4	22.0	22.5	13.4	14.1	13.9	14.5	15.0
	8H	21.0	21.6	21.5	22.1	22.6	13.5	14.1	13.9	14.6	15.0
	12H	21.1	21.6	21.5	22.1	22.6	13.5	14.1	14.0	14.5	15.0
8H	4H	20.4	21.0	20.8	21.5	21.9	13.4	14.1	13.9	14.5	15.0
	6H	20.9	21.4	21.4	21.9	22.4	13.9	14.5	14.4	15.0	15.4
	8H	21.0	21.5	21.5	22.0	22.5	14.1	14.5	14.6	15.0	15.5
	12H	21.1	21.5	21.6	22.0	22.6	14.1	14.5	14.6	15.0	15.6
12H	4H	20.4	20.9	20.8	21.4	21.9	13.5	14.1	14.0	14.6	15.1
	6H	20.8	21.3	21.4	21.8	22.3	14.1	14.5	14.6	15.0	15.6
	8H	21.0	21.4	21.5	21.9	22.5	14.2	14.6	14.7	15.1	15.7

Maximum UGR = 22.6

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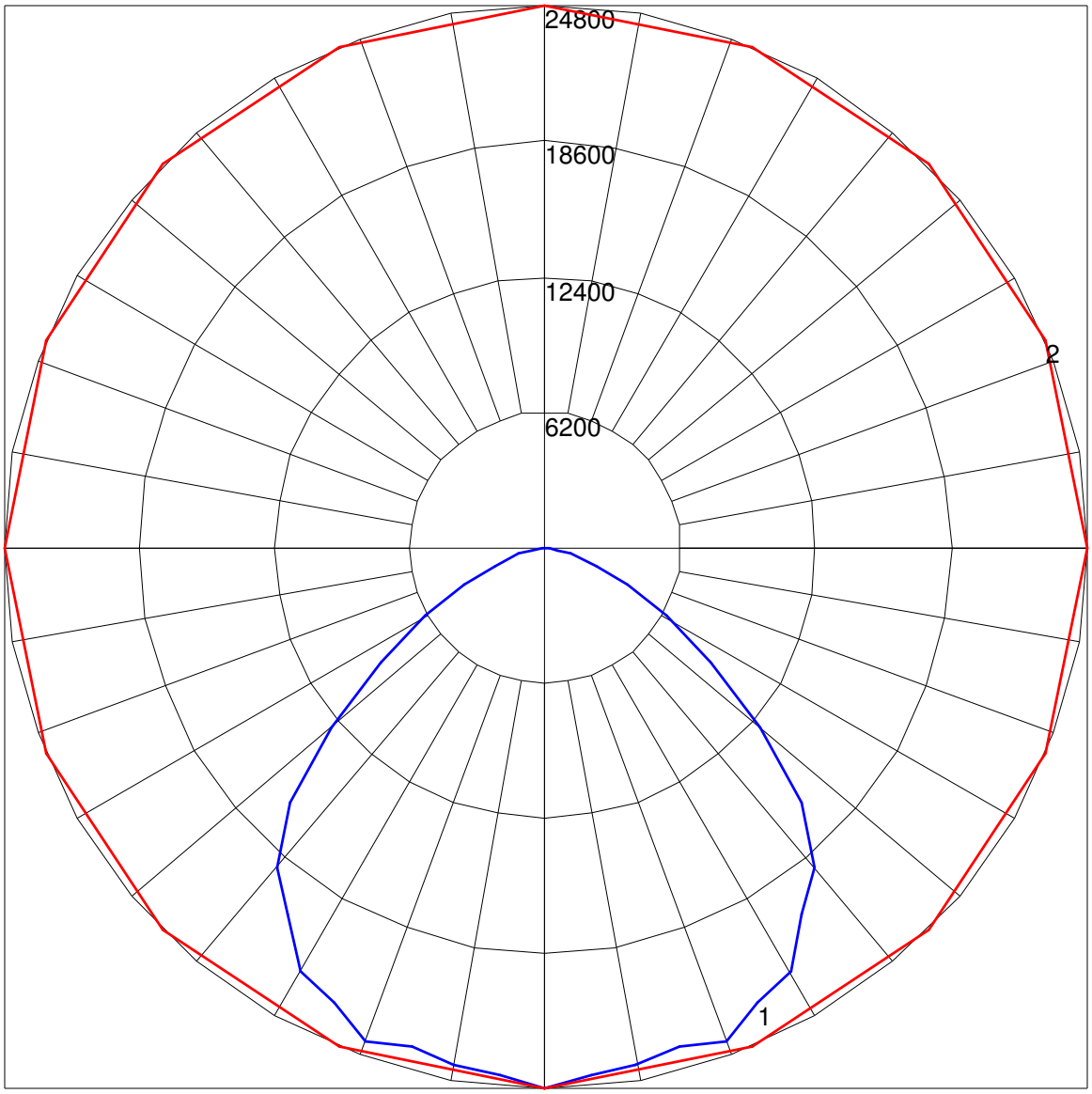
POLAR GRAPH



Maximum Candela = 24800.292 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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