H.E. WILLIAMS, INC.

IES INDOOR REPORT
PHOTOMETRIC FILENAME : GL-8-L300-930-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-L300-930-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	22588
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	116
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	27817	2969	2194
55	19063	2204	1647
65	11536	1670	1695
75	5649	1845	1539
85	2166	682	682

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CANDELA TABULATION

	0.0	22.5	45.0	67.5	90.0
0	22781.667	22781.667	22781.667	22781.667	22781.667
5	22272.408	22095.379	21740.515	21447.084	21277.331
10	22095.379	21370.291	19765.721	18385.871	18131.242
15	21794.674	20198.187	17144.249	14814.591	14043.427
20	22164.897	18501.465	12933.565	9439.886	8329.216
25	21161.738	15948.703	9470.603	6401.306	5491.107
30	20684.004	12786.446	5753.011	3532.480	3046.663
35	18863.605	9169.898	3400.719	2228.615	2020.870
40	17637.341	6285.713	2205.981	1673.280	1565.770
45	15247.057	3918.062	1627.204	1272.339	1202.822
50	11760.652	2629.555	1280.423	1041.152	979.718
55	8475.527	1951.352	979.718	801.881	732.363
60	5830.613	1387.933	763.889	670.929	624.853
65	3779.026	856.040	547.251	578.777	555.335
70	2236.698	616.769	470.458	485.817	431.658
75	1133.304	462.375	370.223	331.423	308.789
80	547.251	339.506	231.187	146.311	123.677
85	146.311	108.319	46.076	46.076	46.076
90	0.000	0.000	0.000	0.000	0.000

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ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixt
0-20	6843.64	N.A.	30.30
0-30	12000.99	N.A.	53.10
0-40	16056.93	N.A.	71.10
0-60	20900.01	N.A.	92.50
0-80	22476.25	N.A.	99.50
0-90	22588.2	N.A.	100.00
10-90	20564.88	N.A.	91.00
20-40	9213.29	N.A.	40.80
20-50	12156.39	N.A.	53.80
40-70	5909.66	N.A.	26.20
60-80	1576.24	N.A.	7.00
70-80	509.66	N.A.	2.30
80-90	111.96	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	22588.2	N.A.	100.00

Total Luminaire Efficiency = N.A.%

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	2023.32
10-20	4820.32
20-30	5157.36
30-40	4055.93
40-50	2943.1
50-60	1899.99
60-70	1066.58
70-80	509.66
80-90	111.96
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	17.8	19.1	18.2	19.5	19.8	10.9	10.9	10.9	10.9	10.9
	3H	19.7	20.9	20.1	21.2	21.5	10.9	12.1	11.3	12.4	12.8
	4H	20.2	21.3	20.6	21.6	22.0	11.7	12.7	12.1	13.1	13.5
	6H	20.5	21.5	21.0	21.9	22.3	12.0	13.0	12.4	13.3	13.7
	8H	20.6	21.5	21.0	21.9	22.3	12.0	13.0	12.5	13.4	13.8
	12H	20.6	21.5	21.1	21.9	22.3	12.0	12.9	12.5	13.3	13.7
4H	2H	17.7	18.8	18.1	19.1	19.5	10.9	10.9	10.9	10.9	11.3
	3H	19.6	20.5	20.0	20.9	21.3	11.8	12.7	12.3	13.1	13.5
	4H	20.2	20.9	20.6	21.4	21.8	12.7	13.5	13.1	13.9	14.3
	6H	20.6	21.3	21.1	21.7	22.2	13.1	13.8	13.6	14.2	14.7
	8H	20.7	21.3	21.2	21.8	22.3	13.2	13.8	13.6	14.3	14.7
	12H	20.8	21.3	21.2	21.8	22.3	13.2	13.8	13.7	14.2	14.7
8H	4H	20.1	20.7	20.5	21.2	21.6	13.1	13.8	13.6	14.2	14.7
	6H	20.6	21.1	21.1	21.6	22.1	13.6	14.2	14.1	14.7	15.1
	8H	20.7	21.2	21.2	21.7	22.2	13.8	14.2	14.3	14.7	15.2
	12H	20.8	21.2	21.3	21.7	22.3	13.8	14.2	14.3	14.7	15.3
12H	4H	20.1	20.6	20.5	21.1	21.6	13.2	13.8	13.7	14.3	14.8
	6H	20.5	21.0	21.1	21.5	22.0	13.8	14.2	14.3	14.7	15.3
	8H	20.7	21.1	21.2	21.6	22.2	13.9	14.3	14.4	14.8	15.4

Maximum UGR = 22.3

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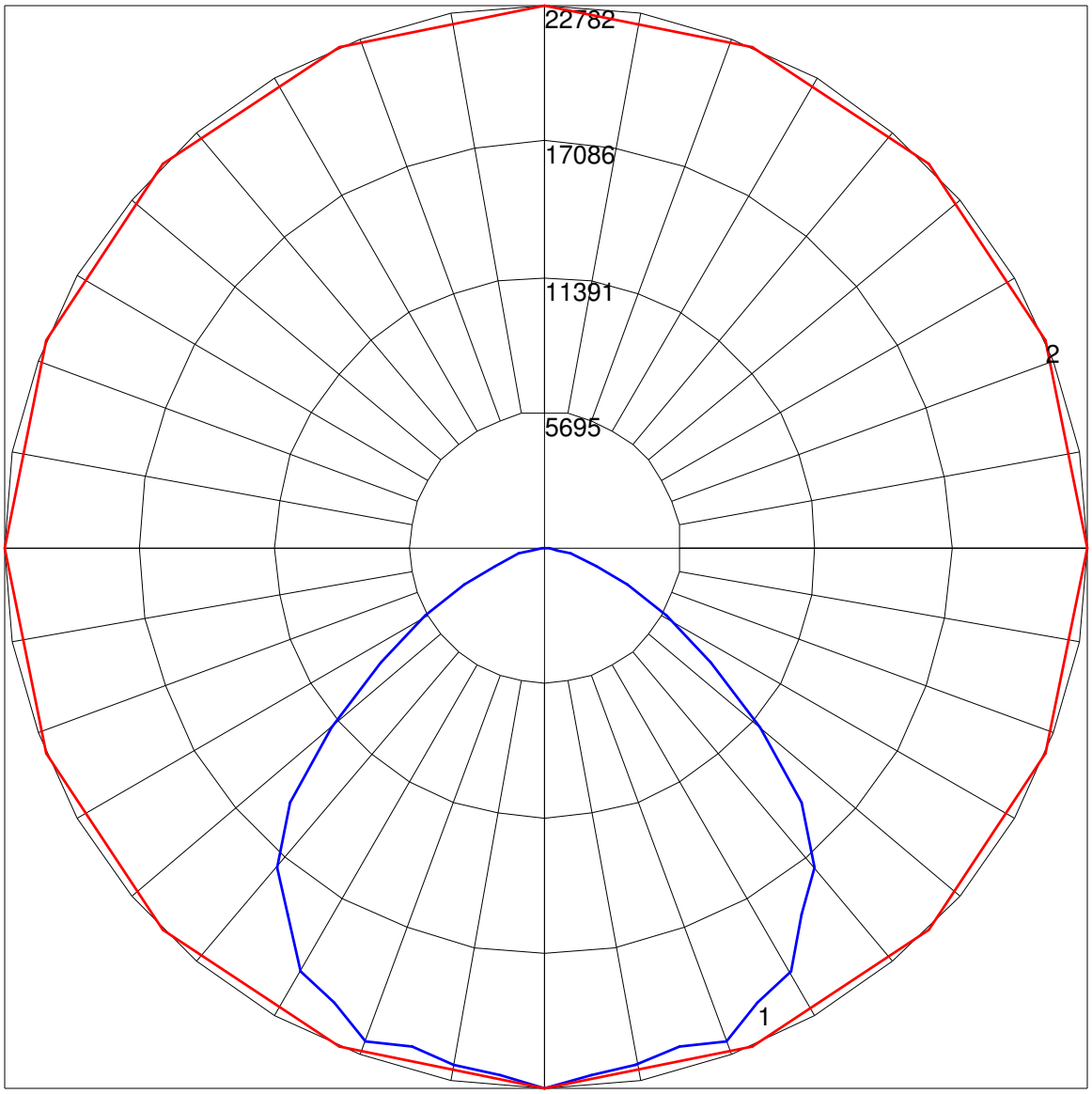
POLAR GRAPH



Maximum Candela = 22781.667 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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