H.E. WILLIAMS, INC.

IES INDOOR REPORT
PHOTOMETRIC FILENAME : GL-8-L300-835-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-L300-835-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	27735
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	143
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	34155	3645	2694
55	23406	2706	2022
65	14164	2051	2081
75	6936	2266	1890
85	2659	837	837

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CANDELA TABULATION

	0.0	22.5	45.0	67.5	90.0
0	27972.426	27972.426	27972.426	27972.426	27972.426
5	27347.133	27129.769	26694.049	26333.761	26125.330
10	27129.769	26239.471	24269.302	22575.057	22262.410
15	26760.549	24800.305	21050.533	18190.067	17243.194
20	27215.127	22716.988	15880.453	11590.746	10227.012
25	25983.399	19582.584	11628.462	7859.832	6742.245
30	25396.815	15699.813	7063.824	4337.349	3740.839
35	23161.641	11259.241	4175.567	2736.401	2481.321
40	21655.975	7717.900	2708.610	2054.534	1922.527
45	18721.069	4810.785	1997.960	1562.240	1476.882
50	14440.295	3228.695	1572.165	1278.376	1202.944
55	10406.659	2395.963	1202.944	984.588	899.231
60	7159.107	1704.171	937.939	823.799	767.224
65	4640.070	1051.087	671.942	710.650	681.867
70	2746.326	757.299	577.651	596.510	530.010
75	1391.525	567.726	454.578	406.937	379.146
80	671.942	416.862	283.863	179.648	151.857
85	179.648	132.999	56.574	56.574	56.574
90	0.000	0.000	0.000	0.000	0.000

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ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixt
0-20	8402.94	N.A.	30.30
0-30	14735.4	N.A.	53.10
0-40	19715.47	N.A.	71.10
0-60	25662.04	N.A.	92.50
0-80	27597.42	N.A.	99.50
0-90	27734.88	N.A.	100.00
10-90	25250.55	N.A.	91.00
20-40	11312.52	N.A.	40.80
20-50	14926.2	N.A.	53.80
40-70	7256.17	N.A.	26.20
60-80	1935.38	N.A.	7.00
70-80	625.78	N.A.	2.30
80-90	137.46	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	27734.88	N.A.	100.00

Total Luminaire Efficiency = N.A.%

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	2484.33
10-20	5918.62
20-30	6332.45
30-40	4980.07
40-50	3613.68
50-60	2332.9
60-70	1309.6
70-80	625.78
80-90	137.46
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	18.5	19.8	18.9	20.2	20.5	11.6	11.6	11.6	11.6	11.6
	3H	20.4	21.6	20.8	21.9	22.2	11.6	12.8	12.0	13.1	13.5
	4H	20.9	22.0	21.3	22.3	22.7	12.4	13.4	12.8	13.8	14.2
	6H	21.2	22.2	21.7	22.6	23.0	12.7	13.7	13.1	14.0	14.4
	8H	21.3	22.2	21.7	22.6	23.0	12.7	13.7	13.2	14.1	14.5
	12H	21.3	22.2	21.8	22.6	23.0	12.7	13.6	13.2	14.0	14.4
4H	2H	18.4	19.5	18.8	19.8	20.2	11.6	11.6	11.6	11.6	12.0
	3H	20.3	21.2	20.7	21.6	22.0	12.5	13.4	13.0	13.8	14.2
	4H	20.9	21.6	21.3	22.1	22.5	13.4	14.2	13.8	14.6	15.0
	6H	21.3	22.0	21.8	22.4	22.9	13.8	14.5	14.3	14.9	15.4
	8H	21.4	22.0	21.9	22.5	23.0	13.9	14.5	14.3	15.0	15.4
	12H	21.5	22.0	21.9	22.5	23.0	13.9	14.5	14.4	14.9	15.4
8H	4H	20.8	21.4	21.2	21.9	22.3	13.8	14.5	14.3	14.9	15.4
	6H	21.3	21.8	21.8	22.3	22.8	14.3	14.9	14.8	15.4	15.8
	8H	21.4	21.9	21.9	22.4	22.9	14.5	14.9	15.0	15.4	15.9
	12H	21.5	21.9	22.0	22.4	23.0	14.5	14.9	15.0	15.4	16.0
12H	4H	20.8	21.3	21.2	21.8	22.3	13.9	14.5	14.4	15.0	15.5
	6H	21.2	21.7	21.8	22.2	22.7	14.5	14.9	15.0	15.4	16.0
	8H	21.4	21.8	21.9	22.3	22.9	14.6	15.0	15.1	15.5	16.1

Maximum UGR = 23.0

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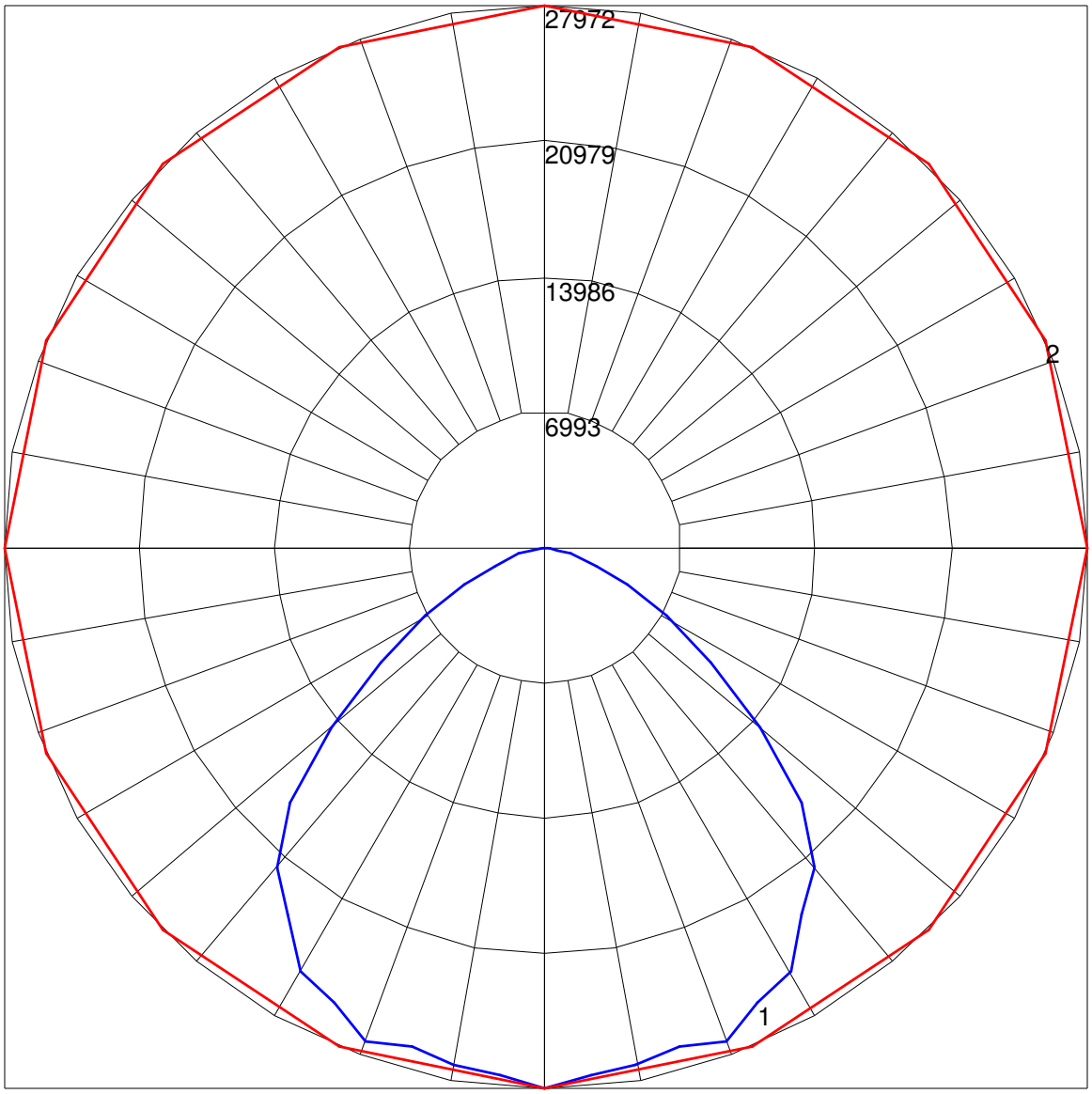
POLAR GRAPH



Maximum Candela = 27972.426 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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