H.E. WILLIAMS, INC.

IES INDOOR REPORT
PHOTOMETRIC FILENAME : GL-8-L400-850-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-L400-850-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	39326
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	150
Total Luminaire Watts	262
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	48429	5168	3820
55	33188	3836	2868
65	20083	2908	2951
75	9835	3213	2680
85	3770	1187	1187

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CANDELA TABULATION

	0.0	22.5	45.0	67.5	90.0
0	39662.782	39662.782	39662.782	39662.782	39662.782
5	38776.164	38467.959	37850.141	37339.281	37043.741
10	38467.959	37205.584	34412.034	32009.722	31566.413
15	37944.432	35164.956	29848.063	25792.138	24449.545
20	38588.990	32210.970	22517.281	16434.800	14501.129
25	36842.493	27766.622	16488.279	11144.647	9559.993
30	36010.761	22261.147	10015.968	6150.032	5304.227
35	32841.454	15964.752	5920.637	3880.009	3518.325
40	30706.534	10943.398	3840.604	2913.173	2725.998
45	26545.059	6821.329	2832.955	2215.137	2094.107
50	20475.245	4578.045	2229.211	1812.641	1705.684
55	14755.855	3397.295	1705.684	1396.071	1275.041
60	10151.072	2416.386	1329.927	1168.084	1087.866
65	6579.268	1490.363	952.762	1007.648	966.836
70	3894.082	1073.793	819.066	845.805	751.514
75	1973.077	804.993	644.557	577.005	537.600
80	952.762	591.079	402.496	254.727	215.321
85	254.727	188.582	80.218	80.218	80.218
90	0.000	0.000	0.000	0.000	0.000

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ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixt
0-20	11914.74	N.A.	30.30
0-30	20893.68	N.A.	53.10
0-40	27955.04	N.A.	71.10
0-60	36386.83	N.A.	92.50
0-80	39131.05	N.A.	99.50
0-90	39325.96	N.A.	100.00
10-90	35803.38	N.A.	91.00
20-40	16040.3	N.A.	40.80
20-50	21164.22	N.A.	53.80
40-70	10288.7	N.A.	26.20
60-80	2744.22	N.A.	7.00
70-80	887.31	N.A.	2.30
80-90	194.91	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	39325.96	N.A.	100.00

Total Luminaire Efficiency = N.A.%

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	3522.59
10-20	8392.15
20-30	8978.94
30-40	7061.36
40-50	5123.92
50-60	3307.87
60-70	1856.91
70-80	887.31
80-90	194.91
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	19.7	21.0	20.1	21.4	21.7	12.8	12.8	12.8	12.8	12.8
	3H	21.6	22.8	22.0	23.1	23.4	12.8	14.0	13.2	14.3	14.7
	4H	22.1	23.2	22.5	23.5	23.9	13.6	14.6	14.0	15.0	15.4
	6H	22.4	23.4	22.9	23.8	24.2	13.9	14.9	14.3	15.2	15.6
	8H	22.5	23.4	22.9	23.8	24.2	13.9	14.9	14.4	15.3	15.7
	12H	22.5	23.4	23.0	23.8	24.2	13.9	14.8	14.4	15.2	15.6
4H	2H	19.6	20.7	20.0	21.0	21.4	12.8	12.8	12.8	12.8	13.2
	3H	21.5	22.4	21.9	22.8	23.2	13.7	14.6	14.2	15.0	15.4
	4H	22.1	22.8	22.5	23.3	23.7	14.6	15.4	15.0	15.8	16.2
	6H	22.5	23.2	23.0	23.6	24.1	15.0	15.7	15.5	16.1	16.6
	8H	22.6	23.2	23.1	23.7	24.2	15.1	15.7	15.5	16.2	16.6
	12H	22.7	23.2	23.1	23.7	24.2	15.1	15.7	15.6	16.1	16.6
8H	4H	22.0	22.6	22.4	23.1	23.5	15.0	15.7	15.5	16.1	16.6
	6H	22.5	23.0	23.0	23.5	24.0	15.5	16.1	16.0	16.6	17.0
	8H	22.6	23.1	23.1	23.6	24.1	15.7	16.1	16.2	16.6	17.1
	12H	22.7	23.1	23.2	23.6	24.2	15.7	16.1	16.2	16.6	17.2
12H	4H	22.0	22.5	22.4	23.0	23.5	15.1	15.7	15.6	16.2	16.7
	6H	22.4	22.9	23.0	23.4	23.9	15.7	16.1	16.2	16.6	17.2
	8H	22.6	23.0	23.1	23.5	24.1	15.8	16.2	16.3	16.7	17.3

Maximum UGR = 24.2

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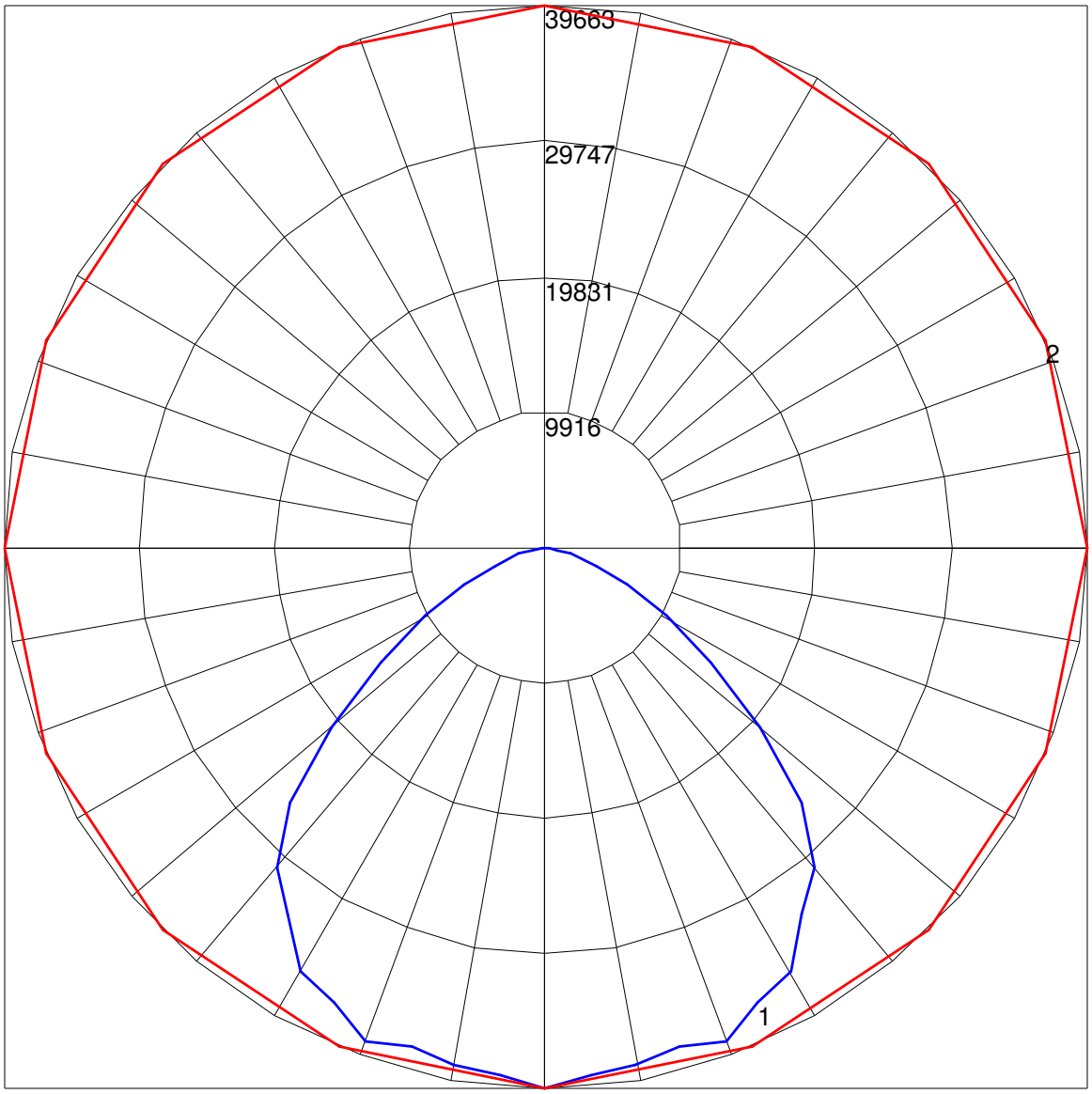
POLAR GRAPH



Maximum Candela = 39662.782 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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