H.E. WILLIAMS, INC.

IES INDOOR REPORT
PHOTOMETRIC FILENAME : GL-8-L400-950-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-L400-950-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	32835
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	125
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	40436	4315	3190
55	27710	3203	2394
65	16769	2428	2464
75	8211	2682	2237
85	3148	991	991

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CANDELA TABULATION

	0.0	22.5	45.0	67.5	90.0
0	33116.492	33116.492	33116.492	33116.492	33116.492
5	32376.209	32118.873	31603.025	31176.481	30929.720
10	32118.873	31064.851	28732.373	26726.559	26356.417
15	31681.753	29361.025	24921.679	21535.179	20414.179
20	32219.927	26894.591	18800.833	13722.258	12107.736
25	30761.688	23183.777	13766.910	9305.237	7982.129
30	30067.232	18586.973	8362.845	5134.977	4428.771
35	27421.015	13329.790	4943.444	3239.618	2937.630
40	25638.461	9137.205	3206.717	2432.358	2276.076
45	22163.832	5695.477	2365.380	1849.532	1748.477
50	17095.832	3822.444	1861.282	1513.467	1424.163
55	12320.421	2836.576	1424.163	1165.652	1064.597
60	8475.650	2017.564	1110.424	975.293	908.315
65	5493.368	1244.380	795.510	841.337	807.261
70	3251.369	896.565	683.880	706.206	627.478
75	1647.423	672.130	538.174	481.771	448.870
80	795.510	493.522	336.065	212.684	179.783
85	212.684	157.457	66.978	66.978	66.978
90	0.000	0.000	0.000	0.000	0.000

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ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixt
0-20	9948.23	N.A.	30.30
0-30	17445.2	N.A.	53.10
0-40	23341.1	N.A.	71.10
0-60	30381.23	N.A.	92.50
0-80	32672.52	N.A.	99.50
0-90	32835.26	N.A.	100.00
10-90	29894.07	N.A.	91.00
20-40	13392.87	N.A.	40.80
20-50	17671.09	N.A.	53.80
40-70	8590.56	N.A.	26.20
60-80	2291.29	N.A.	7.00
70-80	740.86	N.A.	2.30
80-90	162.74	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	32835.26	N.A.	100.00

Total Luminaire Efficiency = N.A.%

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	2941.19
10-20	7007.04
20-30	7496.98
30-40	5895.89
40-50	4278.22
50-60	2761.91
60-70	1550.43
70-80	740.86
80-90	162.74
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	19.1	20.4	19.5	20.8	21.1	12.2	12.2	12.2	12.2	12.2
	3H	21.0	22.2	21.4	22.5	22.8	12.2	13.4	12.6	13.7	14.1
	4H	21.5	22.6	21.9	22.9	23.3	13.0	14.0	13.4	14.4	14.8
	6H	21.8	22.8	22.3	23.2	23.6	13.3	14.3	13.7	14.6	15.0
	8H	21.9	22.8	22.3	23.2	23.6	13.3	14.3	13.8	14.7	15.1
	12H	21.9	22.8	22.4	23.2	23.6	13.3	14.2	13.8	14.6	15.0
4H	2H	19.0	20.1	19.4	20.4	20.8	12.2	12.2	12.2	12.2	12.6
	3H	20.9	21.8	21.3	22.2	22.6	13.1	14.0	13.6	14.4	14.8
	4H	21.5	22.2	21.9	22.7	23.1	14.0	14.8	14.4	15.2	15.6
	6H	21.9	22.6	22.4	23.0	23.5	14.4	15.1	14.9	15.5	16.0
	8H	22.0	22.6	22.5	23.1	23.6	14.5	15.1	14.9	15.6	16.0
	12H	22.1	22.6	22.5	23.1	23.6	14.5	15.1	15.0	15.5	16.0
8H	4H	21.4	22.0	21.8	22.5	22.9	14.4	15.1	14.9	15.5	16.0
	6H	21.9	22.4	22.4	22.9	23.4	14.9	15.5	15.4	16.0	16.4
	8H	22.0	22.5	22.5	23.0	23.5	15.1	15.5	15.6	16.0	16.5
	12H	22.1	22.5	22.6	23.0	23.6	15.1	15.5	15.6	16.0	16.6
12H	4H	21.4	21.9	21.8	22.4	22.9	14.5	15.1	15.0	15.6	16.1
	6H	21.8	22.3	22.4	22.8	23.3	15.1	15.5	15.6	16.0	16.6
	8H	22.0	22.4	22.5	22.9	23.5	15.2	15.6	15.7	16.1	16.7

Maximum UGR = 23.6

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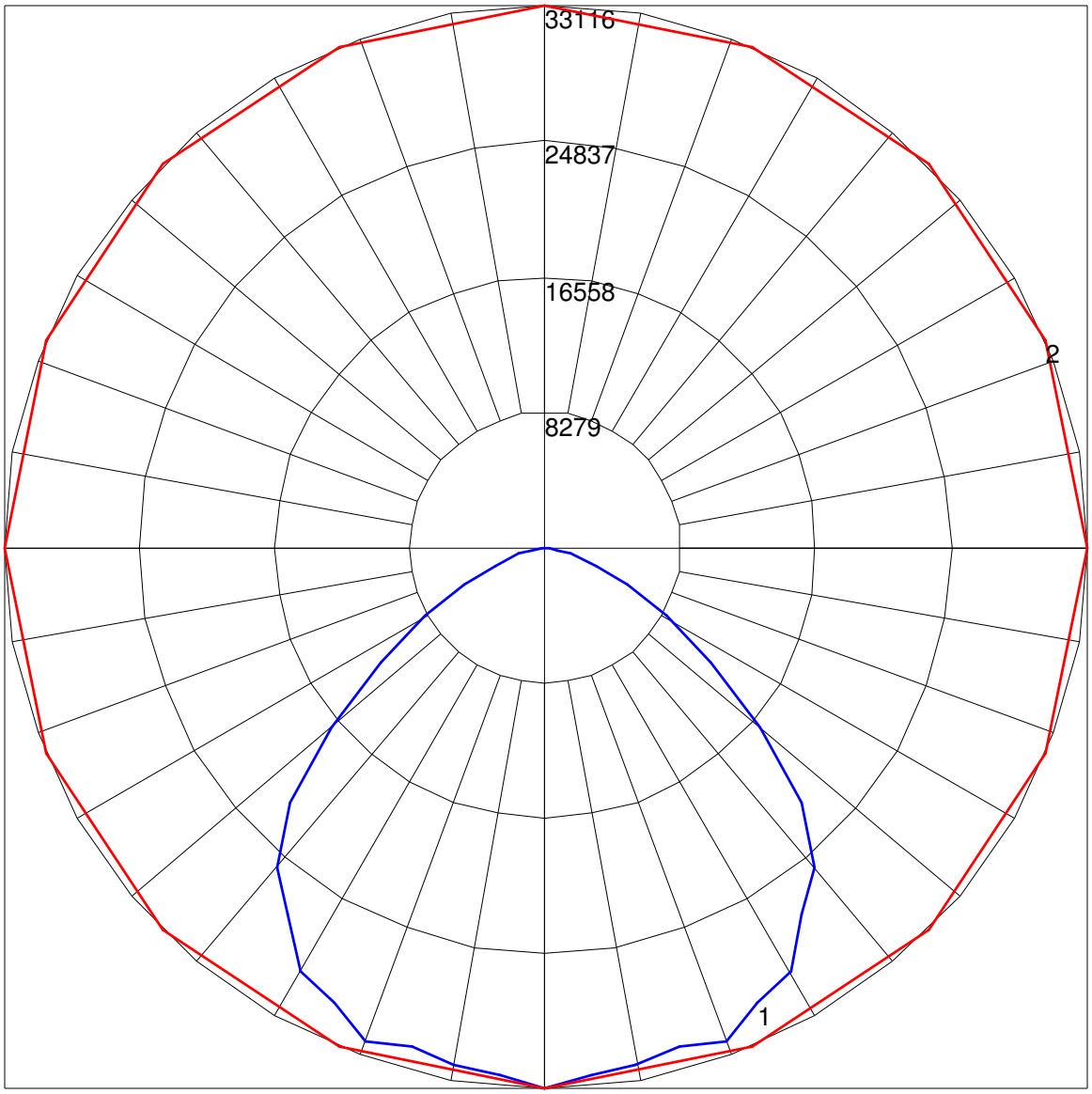
POLAR GRAPH



Maximum Candela = 33116.492 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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