H.E. WILLIAMS, INC.

IES INDOOR REPORT
PHOTOMETRIC FILENAME : GL-8-L600-850-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-L600-850-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	58981
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	151
Total Luminaire Watts	390
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	72634	7752	5730
55	49775	5754	4301
65	30121	4362	4426
75	14750	4818	4019
85	5655	1781	1781

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CANDELA TABULATION

	0.0	22.5	45.0	67.5	90.0
0	59486.366	59486.366	59486.366	59486.366	59486.366
5	58156.613	57694.366	56767.761	56001.570	55558.320
10	57694.366	55801.052	51611.277	48008.281	47343.405
15	56909.179	52740.511	44766.218	38683.129	36669.504
20	57875.888	48310.114	33771.488	24648.965	21748.838
25	55256.487	41644.466	24729.172	16714.776	14338.107
30	54009.052	33387.338	15021.980	9223.838	7955.296
35	49255.716	23943.985	8879.791	5819.250	5276.795
40	46053.756	16412.943	5760.149	4369.186	4088.461
45	39812.363	10230.650	4248.875	3322.270	3140.748
50	30708.836	6866.166	3343.377	2718.605	2558.190
55	22130.878	5095.273	2558.190	2093.832	1912.311
60	15224.609	3624.103	1994.629	1751.896	1631.585
65	9867.607	2235.250	1428.956	1511.274	1450.063
70	5840.357	1610.478	1228.438	1268.542	1127.123
75	2959.227	1207.331	966.709	865.394	806.294
80	1428.956	886.502	603.665	382.040	322.940
85	382.040	282.836	120.311	120.311	120.311
90	0.000	0.000	0.000	0.000	0.000

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ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixt
0-20	17869.76	N.A.	30.30
0-30	31336.4	N.A.	53.10
0-40	41927.05	N.A.	71.10
0-60	54573.08	N.A.	92.50
0-80	58688.87	N.A.	99.50
0-90	58981.2	N.A.	100.00
10-90	53698.01	N.A.	91.00
20-40	24057.29	N.A.	40.80
20-50	31742.16	N.A.	53.80
40-70	15431.02	N.A.	26.20
60-80	4115.79	N.A.	7.00
70-80	1330.79	N.A.	2.30
80-90	292.33	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	58981.2	N.A.	100.00

Total Luminaire Efficiency = N.A.%

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	5283.19
10-20	12586.57
20-30	13466.64
30-40	10590.65
40-50	7684.87
50-60	4961.15
60-70	2785.00
70-80	1330.79
80-90	292.33
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	21.1	22.4	21.5	22.8	23.1	14.2	14.2	14.2	14.2	14.2
	3H	23.0	24.2	23.4	24.5	24.8	14.2	15.4	14.6	15.7	16.1
	4H	23.5	24.6	23.9	24.9	25.3	15.0	16.0	15.4	16.4	16.8
	6H	23.8	24.8	24.3	25.2	25.6	15.3	16.3	15.7	16.6	17.0
	8H	23.9	24.8	24.3	25.2	25.6	15.3	16.3	15.8	16.7	17.1
	12H	23.9	24.8	24.4	25.2	25.6	15.3	16.2	15.8	16.6	17.0
4H	2H	21.0	22.1	21.4	22.4	22.8	14.2	14.2	14.2	14.2	14.6
	3H	22.9	23.8	23.3	24.2	24.6	15.1	16.0	15.6	16.4	16.8
	4H	23.5	24.2	23.9	24.7	25.1	16.0	16.8	16.4	17.2	17.6
	6H	23.9	24.6	24.4	25.0	25.5	16.4	17.1	16.9	17.5	18.0
	8H	24.0	24.6	24.5	25.1	25.6	16.5	17.1	16.9	17.6	18.0
	12H	24.1	24.6	24.5	25.1	25.6	16.5	17.1	17.0	17.5	18.0
8H	4H	23.4	24.0	23.8	24.5	24.9	16.4	17.1	16.9	17.5	18.0
	6H	23.9	24.4	24.4	24.9	25.4	16.9	17.5	17.4	18.0	18.4
	8H	24.0	24.5	24.5	25.0	25.5	17.1	17.5	17.6	18.0	18.5
	12H	24.1	24.5	24.6	25.0	25.6	17.1	17.5	17.6	18.0	18.6
12H	4H	23.4	23.9	23.8	24.4	24.9	16.5	17.1	17.0	17.6	18.1
	6H	23.8	24.3	24.4	24.8	25.3	17.1	17.5	17.6	18.0	18.6
	8H	24.0	24.4	24.5	24.9	25.5	17.2	17.6	17.7	18.1	18.7

Maximum UGR = 25.6

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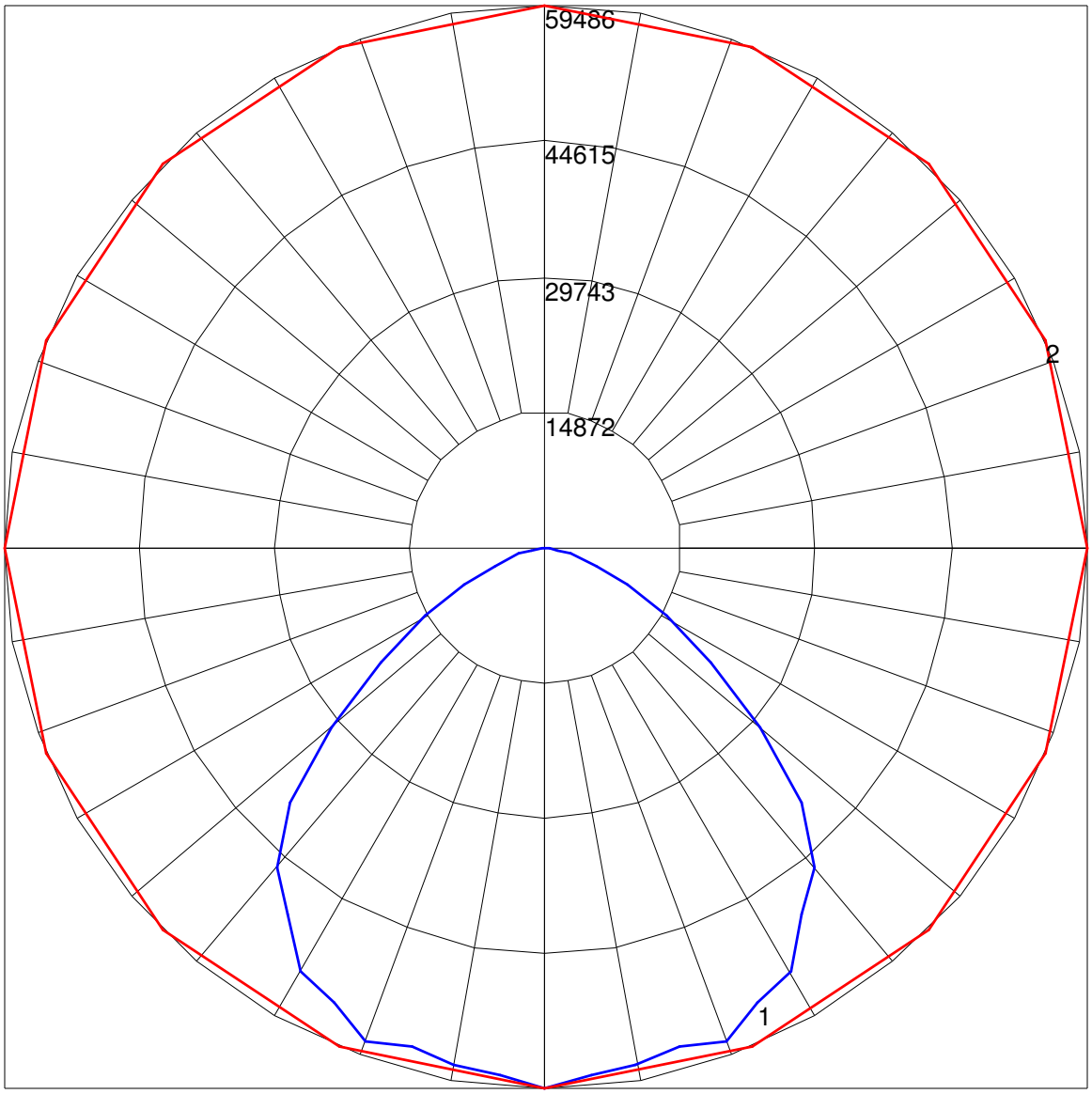
POLAR GRAPH



Maximum Candela = 59486.366 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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