H.E. WILLIAMS, INC.

IES INDOOR REPORT
PHOTOMETRIC FILENAME : GL-8-L300-850-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-L300-850-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	29450
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	152
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	36267	3871	2861
55	24854	2873	2148
65	15040	2178	2210
75	7365	2406	2007
85	2824	889	889

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CANDELA TABULATION

	0.0	22.5	45.0	67.5	90.0
0	29702.685	29702.685	29702.685	29702.685	29702.685
5	29038.714	28807.906	28345.234	27962.660	27741.336
10	28807.906	27862.537	25770.502	23971.457	23639.472
15	28415.847	26334.350	22352.633	19315.230	18309.788
20	28898.543	24122.168	16862.753	12307.702	10859.613
25	27590.626	20793.882	12347.751	8346.009	7159.293
30	26967.758	16670.939	7500.763	4605.639	3972.232
35	24594.325	11955.692	4433.850	2905.663	2634.805
40	22995.525	8195.298	2876.153	2181.619	2041.447
45	19879.078	5108.360	2121.545	1658.873	1568.236
50	15333.512	3428.408	1669.413	1357.452	1277.354
55	11050.373	2544.168	1277.354	1045.491	954.853
60	7601.940	1809.584	995.956	874.755	814.682
65	4927.086	1116.103	713.505	754.608	724.044
70	2916.202	804.143	613.383	633.407	562.794
75	1477.599	602.843	482.696	432.108	402.598
80	713.505	442.647	301.422	190.760	161.250
85	190.760	141.226	60.074	60.074	60.074
90	0.000	0.000	0.000	0.000	0.000

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ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixt
0-20	8922.72	N.A.	30.30
0-30	15646.87	N.A.	53.10
0-40	20934.98	N.A.	71.10
0-60	27249.39	N.A.	92.50
0-80	29304.48	N.A.	99.50
0-90	29450.45	N.A.	100.00
10-90	26812.45	N.A.	91.00
20-40	12012.27	N.A.	40.80
20-50	15849.47	N.A.	53.80
40-70	7705.01	N.A.	26.20
60-80	2055.09	N.A.	7.00
70-80	664.49	N.A.	2.30
80-90	145.97	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	29450.45	N.A.	100.00

Total Luminaire Efficiency = N.A.%

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	2638.00
10-20	6284.72
20-30	6724.15
30-40	5288.12
40-50	3837.2
50-60	2477.2
60-70	1390.6
70-80	664.49
80-90	145.97
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	47	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	18.8	20.0	19.1	20.4	20.7	11.8	11.8	11.8	11.8	11.8
	3H	20.6	21.8	21.0	22.1	22.4	11.8	13.0	12.2	13.3	13.7
	4H	21.1	22.2	21.5	22.5	22.9	12.6	13.6	13.0	14.0	14.4
	6H	21.4	22.4	21.9	22.8	23.2	12.9	13.9	13.3	14.2	14.6
	8H	21.5	22.4	21.9	22.8	23.2	12.9	13.9	13.4	14.3	14.7
	12H	21.5	22.4	22.0	22.8	23.2	12.9	13.8	13.4	14.2	14.6
4H	2H	18.6	19.7	19.0	20.0	20.4	11.8	11.8	11.8	11.8	12.2
	3H	20.5	21.4	20.9	21.8	22.2	12.7	13.6	13.2	14.0	14.4
	4H	21.1	21.8	21.5	22.3	22.7	13.6	14.4	14.0	14.8	15.2
	6H	21.5	22.2	22.0	22.6	23.1	14.0	14.7	14.5	15.1	15.6
	8H	21.6	22.2	22.1	22.7	23.2	14.1	14.7	14.5	15.2	15.6
	12H	21.7	22.2	22.1	22.7	23.2	14.1	14.7	14.6	15.1	15.6
8H	4H	21.0	21.6	21.4	22.1	22.5	14.0	14.7	14.5	15.1	15.6
	6H	21.5	22.0	22.0	22.5	23.0	14.5	15.1	15.0	15.6	16.0
	8H	21.6	22.1	22.1	22.6	23.1	14.7	15.1	15.2	15.6	16.1
	12H	21.7	22.1	22.2	22.6	23.2	14.7	15.1	15.2	15.6	16.2
12H	4H	21.0	21.5	21.4	22.0	22.5	14.1	14.7	14.6	15.2	15.7
	6H	21.4	21.9	22.0	22.4	22.9	14.7	15.1	15.2	15.6	16.2
	8H	21.6	22.0	22.1	22.5	23.1	14.8	15.2	15.3	15.7	16.3

Maximum UGR = 23.2

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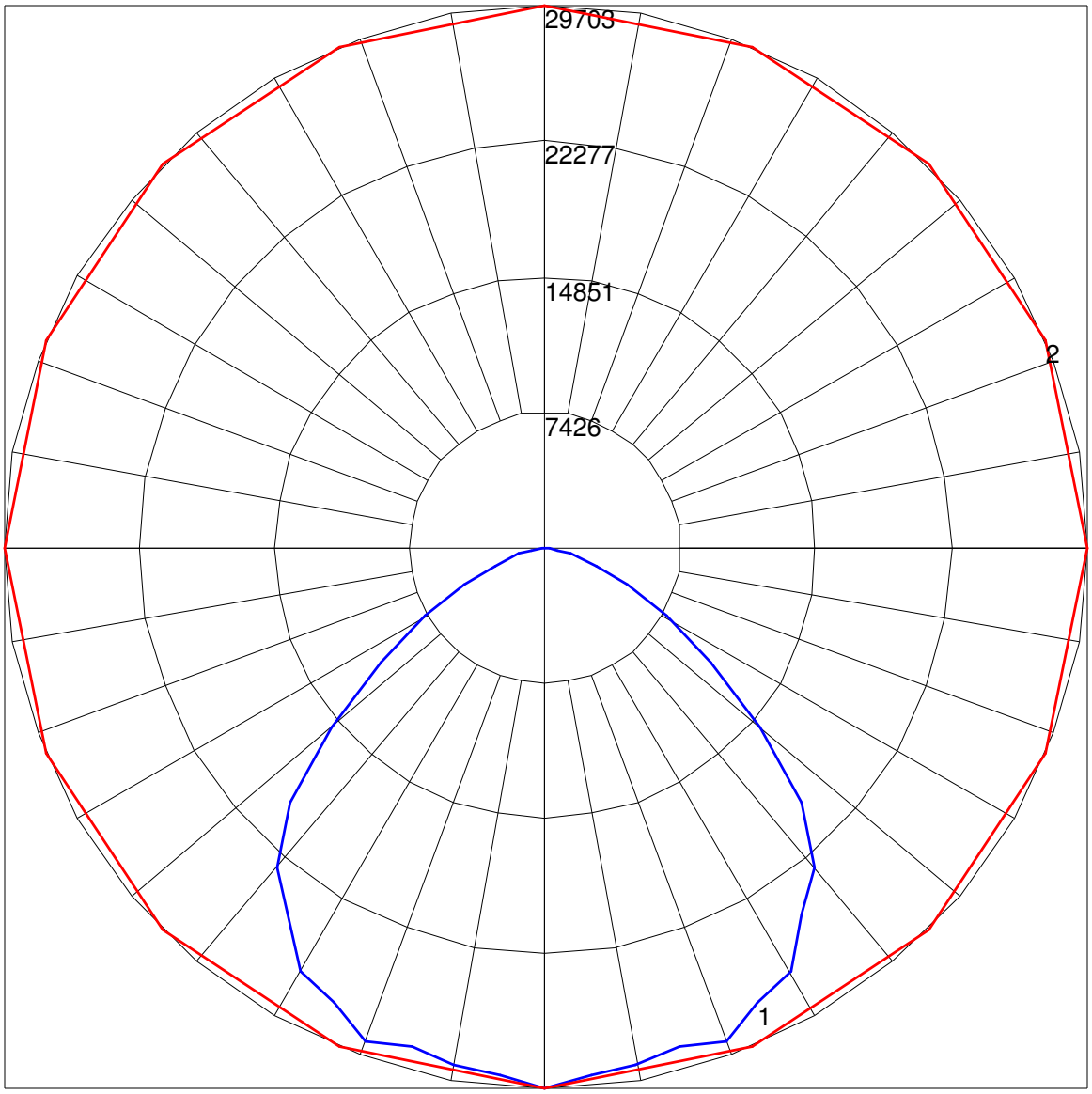
POLAR GRAPH



Maximum Candela = 29702.685 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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