H.E. WILLIAMS, INC.

IES INDOOR REPORT
PHOTOMETRIC FILENAME : GL-8-L300-830-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-L300-830-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	27449
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	141
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	33803	3608	2667
55	23165	2678	2002
65	14018	2030	2060
75	6864	2242	1870
85	2632	829	829

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CANDELA TABULATION

	0.0	22.5	45.0	67.5	90.0
0	27684.048	27684.048	27684.048	27684.048	27684.048
5	27065.201	26850.079	26418.851	26062.277	25855.995
10	26850.079	25968.959	24019.102	22342.322	22032.899
15	26484.664	24544.630	20833.516	18002.539	17065.428
20	26934.556	22482.791	15716.736	11471.253	10121.578
25	25715.527	19380.700	11508.580	7778.802	6672.737
30	25134.990	15537.958	6991.001	4292.633	3702.274
35	22922.859	11143.166	4132.519	2708.190	2455.740
40	21432.716	7638.334	2680.686	2033.353	1902.707
45	18528.067	4761.189	1977.362	1546.134	1461.656
50	14291.424	3195.409	1555.957	1265.197	1190.543
55	10299.373	2371.263	1190.543	974.438	889.960
60	7085.301	1686.602	928.270	815.306	759.315
65	4592.234	1040.251	665.014	703.324	674.837
70	2718.013	749.492	571.696	590.360	524.546
75	1377.179	561.873	449.892	402.741	375.237
80	665.014	412.564	280.937	177.796	150.291
85	177.796	131.628	55.991	55.991	55.991
90	0.000	0.000	0.000	0.000	0.000

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ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixt
0-20	8316.32	N.A.	30.30
0-30	14583.49	N.A.	53.10
0-40	19512.21	N.A.	71.10
0-60	25397.48	N.A.	92.50
0-80	27312.91	N.A.	99.50
0-90	27448.95	N.A.	100.00
10-90	24990.24	N.A.	91.00
20-40	11195.9	N.A.	40.80
20-50	14772.32	N.A.	53.80
40-70	7181.36	N.A.	26.20
60-80	1915.43	N.A.	7.00
70-80	619.33	N.A.	2.30
80-90	136.05	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	27448.95	N.A.	100.00

Total Luminaire Efficiency = N.A.%

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	2458.72
10-20	5857.6
20-30	6267.17
30-40	4928.73
40-50	3576.42
50-60	2308.85
60-70	1296.1
70-80	619.33
80-90	136.05
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	19.7	18.8	20.1	20.4	11.5	11.5	11.5	11.5	11.5
	3H	20.3	21.5	20.7	21.8	22.1	11.5	12.7	11.9	13.0	13.4
	4H	20.8	21.9	21.2	22.2	22.6	12.3	13.3	12.7	13.7	14.1
	6H	21.1	22.1	21.6	22.5	22.9	12.6	13.6	13.0	13.9	14.3
	8H	21.2	22.1	21.6	22.5	22.9	12.6	13.6	13.1	14.0	14.4
	12H	21.2	22.1	21.7	22.5	22.9	12.6	13.5	13.1	13.9	14.3
4H	2H	18.3	19.4	18.7	19.7	20.1	11.5	11.5	11.5	11.5	11.9
	3H	20.2	21.1	20.6	21.5	21.9	12.4	13.3	12.9	13.7	14.1
	4H	20.8	21.5	21.2	22.0	22.4	13.3	14.1	13.7	14.5	14.9
	6H	21.2	21.9	21.7	22.3	22.8	13.7	14.4	14.2	14.8	15.3
	8H	21.3	21.9	21.8	22.4	22.9	13.8	14.4	14.2	14.9	15.3
	12H	21.4	21.9	21.8	22.4	22.9	13.8	14.4	14.3	14.8	15.3
8H	4H	20.7	21.3	21.1	21.8	22.2	13.7	14.4	14.2	14.8	15.3
	6H	21.2	21.7	21.7	22.2	22.7	14.2	14.8	14.7	15.3	15.7
	8H	21.3	21.8	21.8	22.3	22.8	14.4	14.8	14.9	15.3	15.8
	12H	21.4	21.8	21.9	22.3	22.9	14.4	14.8	14.9	15.3	15.9
12H	4H	20.7	21.2	21.1	21.7	22.2	13.8	14.4	14.3	14.9	15.4
	6H	21.1	21.6	21.7	22.1	22.6	14.4	14.8	14.9	15.3	15.9
	8H	21.3	21.7	21.8	22.2	22.8	14.5	14.9	15.0	15.4	16.0

Maximum UGR = 22.9

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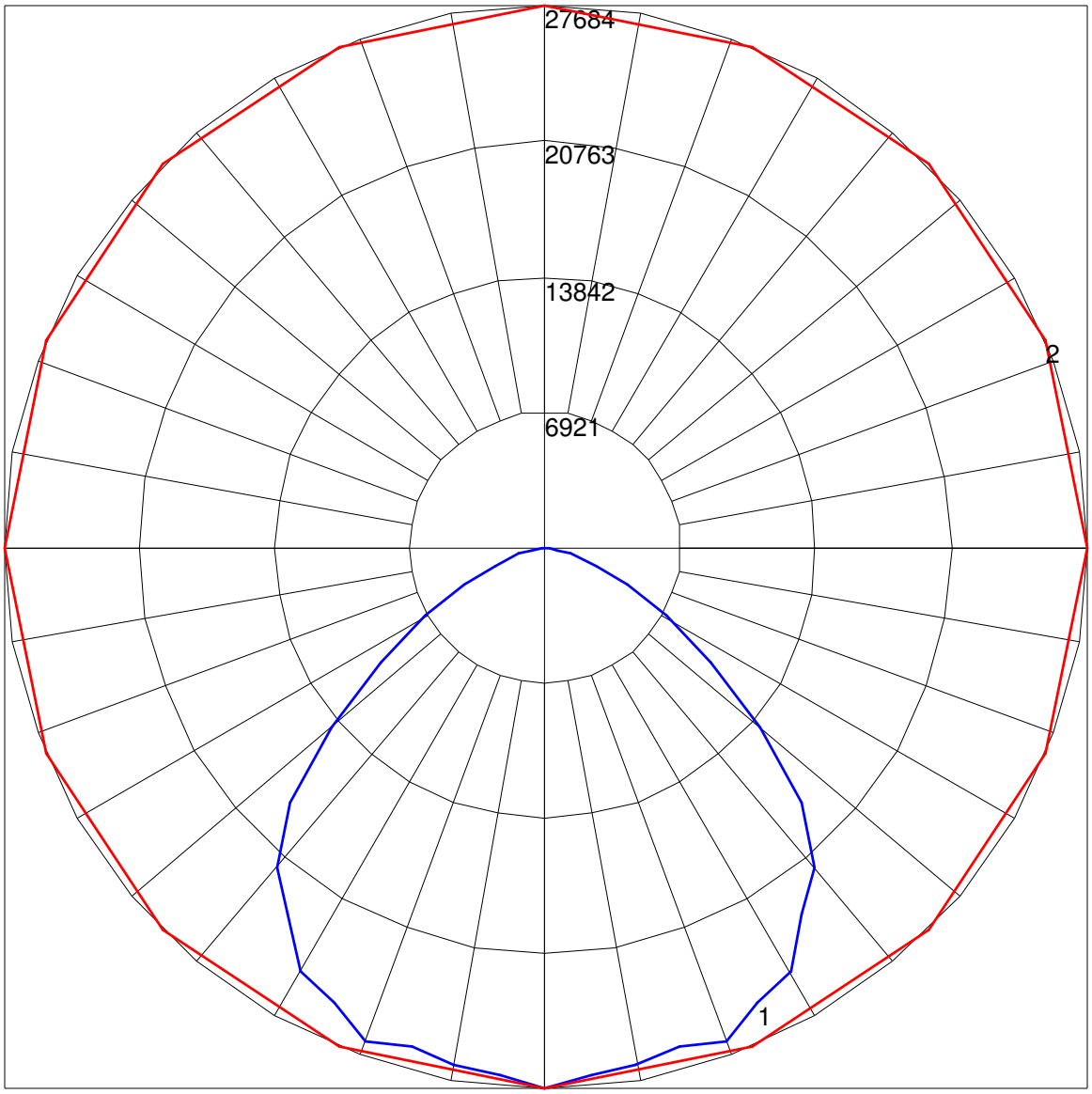
POLAR GRAPH



Maximum Candela = 27684.048 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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