H.E. WILLIAMS, INC.

IES INDOOR REPORT
PHOTOMETRIC FILENAME : GL-8-L300-840-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-L300-840-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	28593
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	147
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	35211	3758	2778
55	24130	2789	2085
65	14602	2115	2146
75	7150	2336	1948
85	2741	863	863

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CANDELA TABULATION

	0.0	22.5	45.0	67.5	90.0
0	28837.549	28837.549	28837.549	28837.549	28837.549
5	28192.917	27968.831	27519.635	27148.204	26933.327
10	27968.831	27050.998	25019.896	23273.251	22950.936
15	27588.191	25567.322	21701.578	18752.644	17776.487
20	28056.828	23419.573	16371.599	11949.221	10543.310
25	26787.006	20188.228	11988.104	8102.918	6950.767
30	26182.280	16185.372	7282.292	4471.493	3856.535
35	23877.977	11607.464	4304.707	2821.031	2558.062
40	22325.745	7956.597	2792.381	2118.076	1981.987
45	19300.069	4959.571	2059.752	1610.556	1522.559
50	14886.900	3328.551	1620.788	1317.914	1240.149
55	10728.514	2470.065	1240.149	1015.039	927.042
60	7380.522	1756.877	966.948	849.277	790.953
65	4783.577	1083.595	692.723	732.629	702.956
70	2831.263	780.721	595.517	614.958	546.402
75	1434.561	585.285	468.637	419.522	390.872
80	692.723	429.754	292.642	185.204	156.553
85	185.204	137.112	58.324	58.324	58.324
90	0.000	0.000	0.000	0.000	0.000

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ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixt
0-20	8662.83	N.A.	30.30
0-30	15191.13	N.A.	53.10
0-40	20325.22	N.A.	71.10
0-60	26455.71	N.A.	92.50
0-80	28450.94	N.A.	99.50
0-90	28592.66	N.A.	100.00
10-90	26031.49	N.A.	91.00
20-40	11662.39	N.A.	40.80
20-50	15387.83	N.A.	53.80
40-70	7480.59	N.A.	26.20
60-80	1995.24	N.A.	7.00
70-80	645.14	N.A.	2.30
80-90	141.72	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	28592.66	N.A.	100.00

Total Luminaire Efficiency = N.A.%

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	2561.16
10-20	6101.67
20-30	6528.3
30-40	5134.09
40-50	3725.44
50-60	2405.05
60-70	1350.1
70-80	645.14
80-90	141.72
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	18.6	19.9	19.0	20.3	20.6	11.7	11.7	11.7	11.7	11.7
	3H	20.5	21.7	20.9	22.0	22.3	11.7	12.9	12.1	13.2	13.6
	4H	21.0	22.1	21.4	22.4	22.8	12.5	13.5	12.9	13.9	14.3
	6H	21.3	22.3	21.8	22.7	23.1	12.8	13.8	13.2	14.1	14.5
	8H	21.4	22.3	21.8	22.7	23.1	12.8	13.8	13.3	14.2	14.6
	12H	21.4	22.3	21.9	22.7	23.1	12.8	13.7	13.3	14.1	14.5
4H	2H	18.5	19.6	18.9	19.9	20.3	11.7	11.7	11.7	11.7	12.1
	3H	20.4	21.3	20.8	21.7	22.1	12.6	13.5	13.1	13.9	14.3
	4H	21.0	21.7	21.4	22.2	22.6	13.5	14.3	13.9	14.7	15.1
	6H	21.4	22.1	21.9	22.5	23.0	13.9	14.6	14.4	15.0	15.5
	8H	21.5	22.1	22.0	22.6	23.1	14.0	14.6	14.4	15.1	15.5
	12H	21.6	22.1	22.0	22.6	23.1	14.0	14.6	14.5	15.0	15.5
8H	4H	20.9	21.5	21.3	22.0	22.4	13.9	14.6	14.4	15.0	15.5
	6H	21.4	21.9	21.9	22.4	22.9	14.4	15.0	14.9	15.5	15.9
	8H	21.5	22.0	22.0	22.5	23.0	14.6	15.0	15.1	15.5	16.0
	12H	21.6	22.0	22.1	22.5	23.1	14.6	15.0	15.1	15.5	16.1
12H	4H	20.9	21.4	21.3	21.9	22.4	14.0	14.6	14.5	15.1	15.6
	6H	21.3	21.8	21.9	22.3	22.8	14.6	15.0	15.1	15.5	16.1
	8H	21.5	21.9	22.0	22.4	23.0	14.7	15.1	15.2	15.6	16.2

Maximum UGR = 23.1

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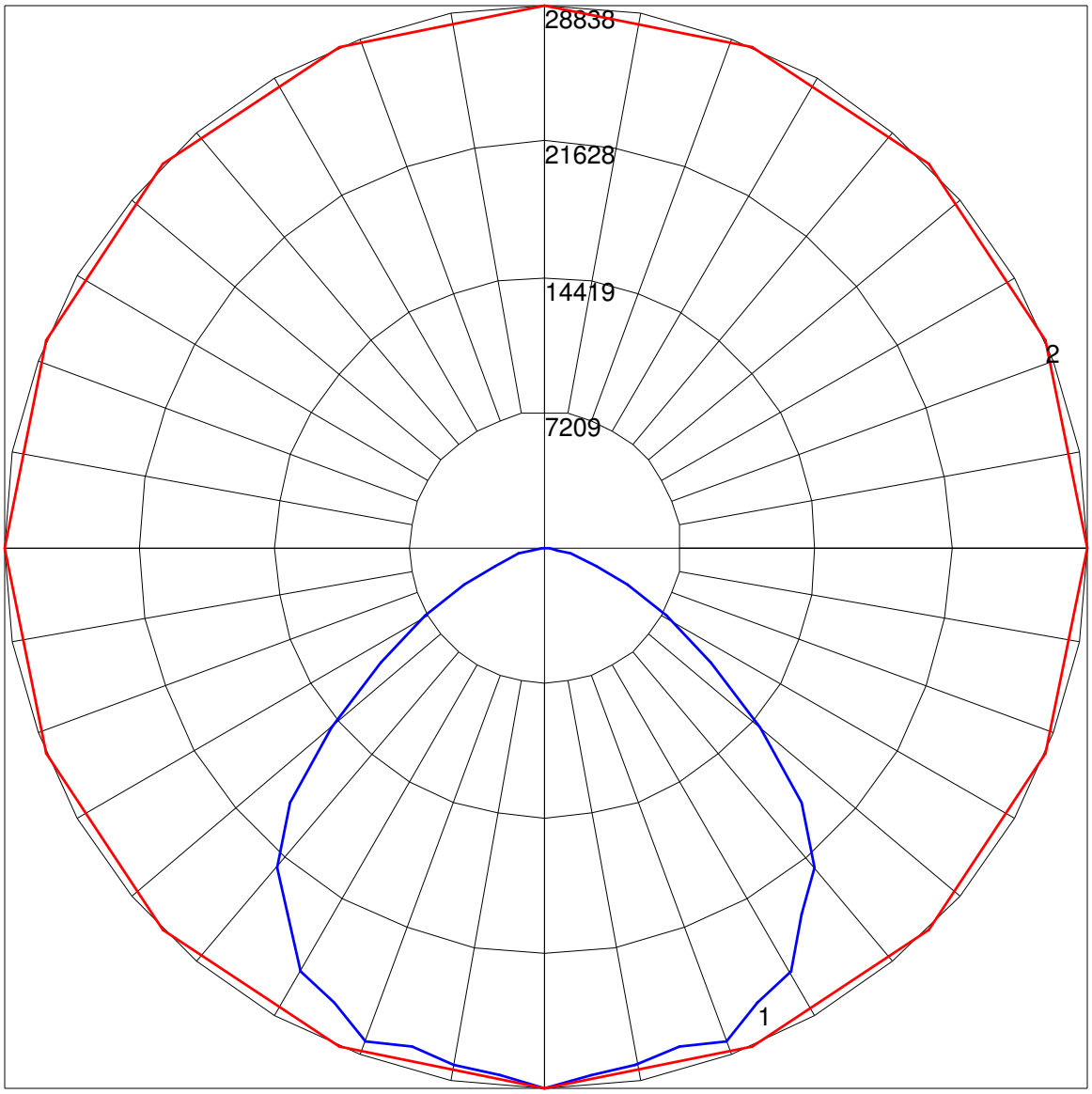
POLAR GRAPH



Maximum Candela = 28837.549 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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