H.E. WILLIAMS, INC.

IES INDOOR REPORT
PHOTOMETRIC FILENAME : GL-8-L400-835-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-L400-835-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	37035
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	141
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	45608	4867	3598
55	31255	3613	2701
65	18913	2739	2779
75	9262	3026	2524
85	3551	1118	1118

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CANDELA TABULATION

	0.0	22.5	45.0	67.5	90.0
0	37352.340	37352.340	37352.340	37352.340	37352.340
5	36517.370	36227.118	35645.289	35164.187	34885.864
10	36227.118	35038.279	32407.459	30145.087	29727.602
15	35734.088	33116.522	28109.349	24289.690	23025.306
20	36341.098	30334.612	21205.601	15477.438	13656.407
25	34696.339	26149.156	15527.801	10495.447	9003.103
30	33913.057	20964.387	9432.516	5791.780	4995.244
35	30928.369	15034.771	5575.748	3653.990	3313.375
40	28917.813	10305.922	3616.880	2743.475	2567.203
45	24998.753	6423.972	2667.930	2086.101	1972.121
50	19282.518	4311.364	2099.354	1707.051	1606.324
55	13896.295	3199.395	1606.324	1314.747	1200.767
60	9559.750	2275.626	1252.456	1100.041	1024.496
65	6196.011	1403.546	897.262	948.951	910.515
70	3667.244	1011.242	771.354	796.535	707.737
75	1858.141	758.100	607.010	543.394	506.284
80	897.262	556.647	379.050	239.888	202.779
85	239.888	177.597	75.545	75.545	75.545
90	0.000	0.000	0.000	0.000	0.000

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ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixt
0-20	11220.68	N.A.	30.30
0-30	19676.58	N.A.	53.10
0-40	26326.6	N.A.	71.10
0-60	34267.22	N.A.	92.50
0-80	36851.58	N.A.	99.50
0-90	37035.14	N.A.	100.00
10-90	33717.75	N.A.	91.00
20-40	15105.92	N.A.	40.80
20-50	19931.36	N.A.	53.80
40-70	9689.36	N.A.	26.20
60-80	2584.37	N.A.	7.00
70-80	835.62	N.A.	2.30
80-90	183.56	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	37035.14	N.A.	100.00

Total Luminaire Efficiency = N.A.%

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	3317.39
10-20	7903.29
20-30	8455.9
30-40	6650.02
40-50	4825.44
50-60	3115.18
60-70	1748.74
70-80	835.62
80-90	183.56
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	19.5	20.8	19.9	21.2	21.5	12.6	12.6	12.6	12.6	12.6
	3H	21.4	22.6	21.8	22.9	23.2	12.6	13.8	13.0	14.1	14.5
	4H	21.9	23.0	22.3	23.3	23.7	13.4	14.4	13.8	14.8	15.2
	6H	22.2	23.2	22.7	23.6	24.0	13.7	14.7	14.1	15.0	15.4
	8H	22.3	23.2	22.7	23.6	24.0	13.7	14.7	14.2	15.1	15.5
	12H	22.3	23.2	22.8	23.6	24.0	13.7	14.6	14.2	15.0	15.4
4H	2H	19.4	20.5	19.8	20.8	21.2	12.6	12.6	12.6	12.6	13.0
	3H	21.3	22.2	21.7	22.6	23.0	13.5	14.4	14.0	14.8	15.2
	4H	21.9	22.6	22.3	23.1	23.5	14.4	15.2	14.8	15.6	16.0
	6H	22.3	23.0	22.8	23.4	23.9	14.8	15.5	15.3	15.9	16.4
	8H	22.4	23.0	22.9	23.5	24.0	14.9	15.5	15.3	16.0	16.4
	12H	22.5	23.0	22.9	23.5	24.0	14.9	15.5	15.4	15.9	16.4
8H	4H	21.8	22.4	22.2	22.9	23.3	14.8	15.5	15.3	15.9	16.4
	6H	22.3	22.8	22.8	23.3	23.8	15.3	15.9	15.8	16.4	16.8
	8H	22.4	22.9	22.9	23.4	23.9	15.5	15.9	16.0	16.4	16.9
	12H	22.5	22.9	23.0	23.4	24.0	15.5	15.9	16.0	16.4	17.0
12H	4H	21.8	22.3	22.2	22.8	23.3	14.9	15.5	15.4	16.0	16.5
	6H	22.2	22.7	22.8	23.2	23.7	15.5	15.9	16.0	16.4	17.0
	8H	22.4	22.8	22.9	23.3	23.9	15.6	16.0	16.1	16.5	17.1

Maximum UGR = 24.0

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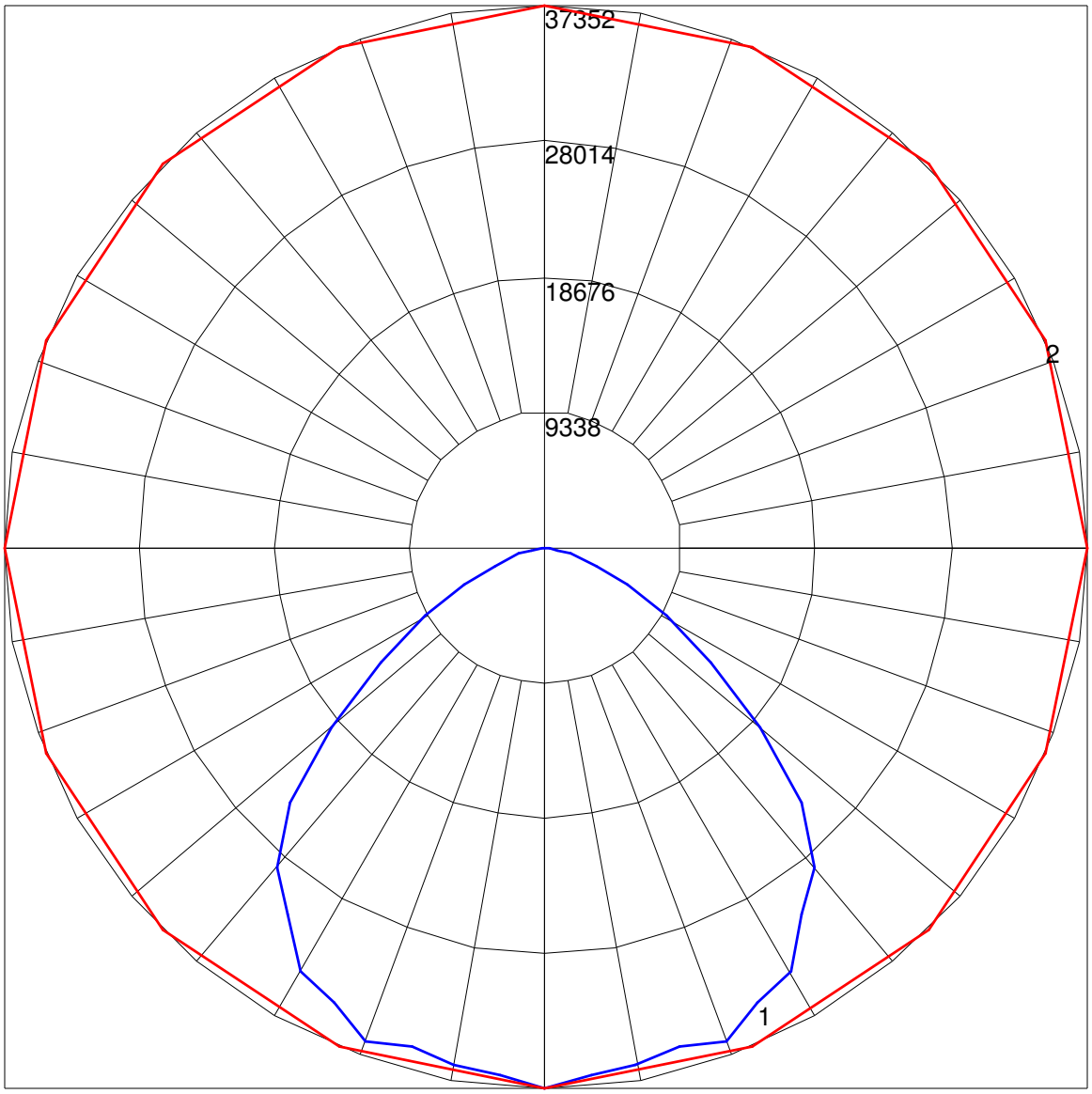
POLAR GRAPH



Maximum Candela = 37352.34 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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