H.E. WILLIAMS, INC.

IES INDOOR REPORT
PHOTOMETRIC FILENAME : GL-8-L600-835-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-L600-835-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	55545
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	142
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	68403	7300	5396
55	46876	5419	4050
65	28366	4108	4168
75	13891	4538	3785
85	5325	1677	1677

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CANDELA TABULATION

	0.0	22.5	45.0	67.5	90.0
0	56021.153	56021.153	56021.153	56021.153	56021.153
5	54768.862	54333.541	53460.913	52739.354	52321.924
10	54333.541	52550.517	48604.805	45211.692	44585.547
15	53594.093	49668.259	42158.487	36429.751	34533.424
20	54504.489	45495.942	31804.224	23213.108	20481.920
25	52037.674	39218.584	23288.643	15741.103	13502.881
30	50862.905	31442.451	14146.916	8686.529	7491.883
35	46386.461	22549.195	8362.523	5480.265	4969.410
40	43371.023	15456.853	5424.608	4114.671	3850.299
45	37493.205	9634.692	4001.369	3128.741	2957.793
50	28919.978	6466.196	3148.618	2560.240	2409.170
55	20841.706	4798.462	2409.170	1971.862	1800.914
60	14337.742	3412.991	1878.437	1649.844	1536.542
65	9292.797	2105.042	1345.716	1423.239	1365.594
70	5500.143	1516.664	1156.879	1194.646	1061.466
75	2786.845	1137.001	910.396	814.983	759.326
80	1345.716	834.861	568.501	359.785	304.128
85	359.785	266.360	113.303	113.303	113.303
90	0.000	0.000	0.000	0.000	0.000

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ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixt
0-20	16828.81	N.A.	30.30
0-30	29510.99	N.A.	53.10
0-40	39484.71	N.A.	71.10
0-60	51394.08	N.A.	92.50
0-80	55270.11	N.A.	99.50
0-90	55545.42	N.A.	100.00
10-90	50569.98	N.A.	91.00
20-40	22655.9	N.A.	40.80
20-50	29893.11	N.A.	53.80
40-70	14532.13	N.A.	26.20
60-80	3876.04	N.A.	7.00
70-80	1253.27	N.A.	2.30
80-90	275.30	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	55545.42	N.A.	100.00

Total Luminaire Efficiency = N.A.%

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	4975.43
10-20	11853.38
20-30	12682.18
30-40	9973.72
40-50	7237.21
50-60	4672.16
60-70	2622.77
70-80	1253.27
80-90	275.30
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	20.9	22.2	21.3	22.6	22.9	14.0	14.0	14.0	14.0	14.0
	3H	22.8	24.0	23.2	24.3	24.6	14.0	15.2	14.4	15.5	15.9
	4H	23.3	24.4	23.7	24.7	25.1	14.8	15.8	15.2	16.2	16.6
	6H	23.6	24.6	24.1	25.0	25.4	15.1	16.1	15.5	16.4	16.8
	8H	23.7	24.6	24.1	25.0	25.4	15.1	16.1	15.6	16.5	16.9
	12H	23.7	24.6	24.2	25.0	25.4	15.1	16.0	15.6	16.4	16.8
4H	2H	20.8	21.9	21.2	22.2	22.6	14.0	14.0	14.0	14.0	14.4
	3H	22.7	23.6	23.1	24.0	24.4	14.9	15.8	15.4	16.2	16.6
	4H	23.3	24.0	23.7	24.5	24.9	15.8	16.6	16.2	17.0	17.4
	6H	23.7	24.4	24.2	24.8	25.3	16.2	16.9	16.7	17.3	17.8
	8H	23.8	24.4	24.3	24.9	25.4	16.3	16.9	16.7	17.4	17.8
	12H	23.9	24.4	24.3	24.9	25.4	16.3	16.9	16.8	17.3	17.8
8H	4H	23.2	23.8	23.6	24.3	24.7	16.2	16.9	16.7	17.3	17.8
	6H	23.7	24.2	24.2	24.7	25.2	16.7	17.3	17.2	17.8	18.2
	8H	23.8	24.3	24.3	24.8	25.3	16.9	17.3	17.4	17.8	18.3
	12H	23.9	24.3	24.4	24.8	25.4	16.9	17.3	17.4	17.8	18.4
12H	4H	23.2	23.7	23.6	24.2	24.7	16.3	16.9	16.8	17.4	17.9
	6H	23.6	24.1	24.2	24.6	25.1	16.9	17.3	17.4	17.8	18.4
	8H	23.8	24.2	24.3	24.7	25.3	17.0	17.4	17.5	17.9	18.5

Maximum UGR = 25.4

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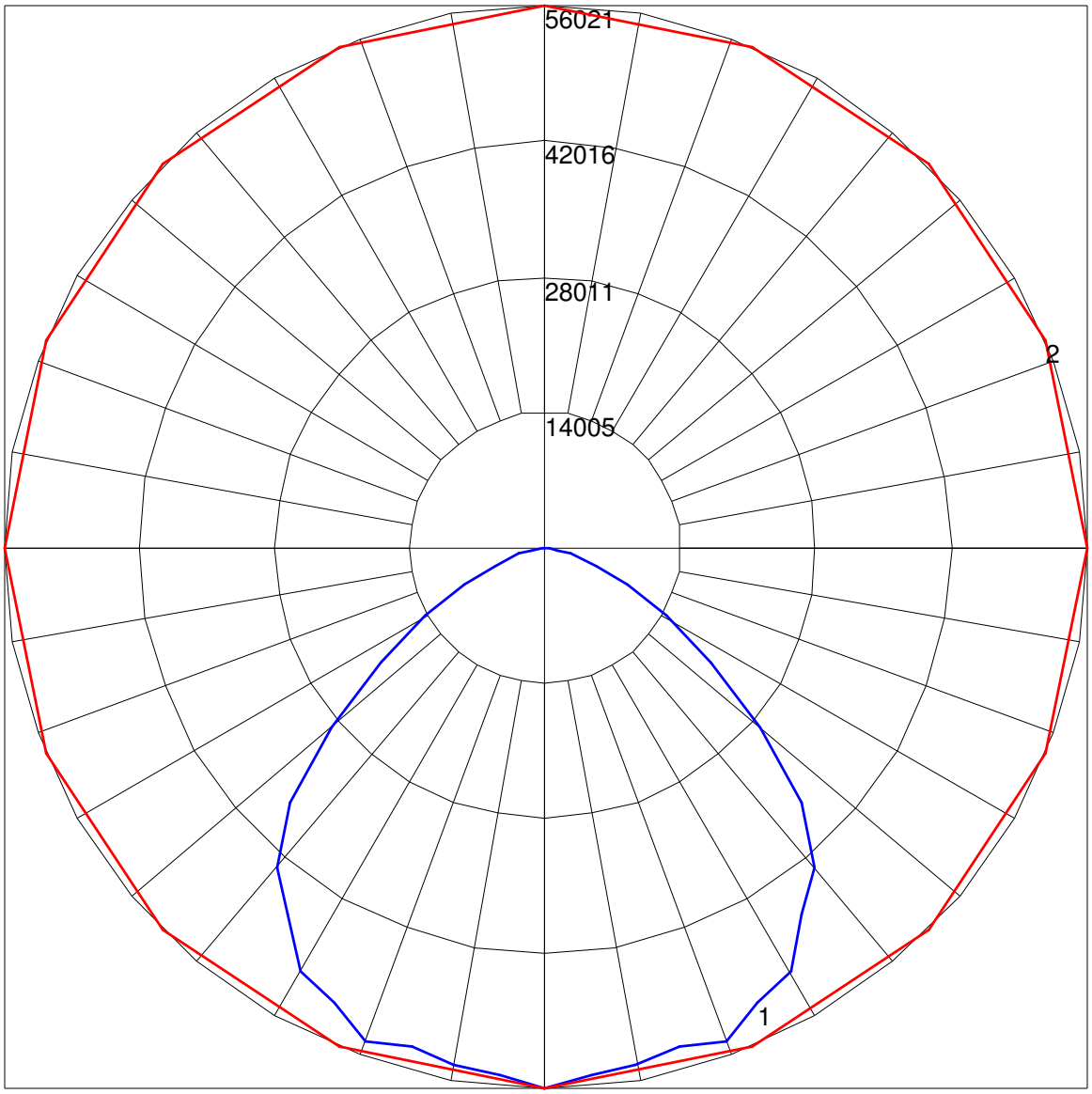
POLAR GRAPH



Maximum Candela = 56021.153 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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