H.E. WILLIAMS, INC.

IES INDOOR REPORT
PHOTOMETRIC FILENAME : GL-8-L600-935-DIM-UNV_.IES

DESCRIPTION INFORMATION (From Photometric File)

IESNA:LM-63-2002
[TEST] GEN FROM BALLABS TEST NO. 19438.0
[TESTLAB] BUILDING ACOUSTICS & LIGHTING LABORATORIES, INC
[ISSUEDATE] 2023-07-18
[MANUFAC] WILLIAMS INDOOR
[OTHER] H.E. WILLIAMS, INC - CARTHAGE, MO
[LUMINAIRE] 96 INCH LONG, LOW PROFILE LED HIGHBAY LUMINAIRE
[MORE] WHITE REFLECTOR w/OPEN BOTTOM
[MORE] 0-10V DIMMING DRIVERS
[LUMCAT] GL-8-L600-935-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	48222
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	121
Total Luminaire Watts	400
Ballast Factor	1.00
CIE Type	Direct
Spacing Criterion (0-180)	1.24
Spacing Criterion (90-270)	1.24
Spacing Criterion (Diagonal)	1.42
Basic Luminous Shape	Rectangular
Luminous Length (0-180)	8.00 ft
Luminous Width (90-270)	1.05 ft
Luminous Height	0.00 ft

LUMINANCE DATA (cd/sq.m)

Angle In Degrees	Average 0-Deg	Average 45-Deg	Average 90-Deg
45	22401	22451	22698
55	20681	21582	16269
65	19452	15582	15863
75	14910	9938	9181
85	8179	5293	6019

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CANDELA TABULATION

	0.0	22.5	45.0	67.5	90.0
0	17539.258	17539.258	17539.258	17539.258	17539.258
5	17286.885	17282.055	17286.885	17292.923	17297.753
10	17271.188	17259.112	17271.188	17292.923	17292.923
15	16910.139	16931.874	16980.175	16986.212	16980.175
20	16253.247	16268.944	16296.717	16318.453	16318.453
25	15323.455	15366.925	15399.529	15339.152	15339.152
30	14437.133	14486.642	14448.001	14437.133	14431.096
35	13490.436	13555.642	13512.172	13539.945	13544.775
40	12889.090	12971.202	12904.788	12943.429	12982.069
45	12396.421	12461.627	12424.194	12517.173	12560.644
50	10957.055	11060.902	11159.919	11235.993	11165.956
55	9283.429	9441.615	9687.949	7620.672	7303.093
60	7778.857	7932.212	7938.250	6285.152	6312.925
65	6433.677	6515.789	5153.704	5307.059	5246.683
70	4715.374	4933.935	4031.916	3528.379	2828.017
75	3020.013	2494.741	2012.939	2051.580	1859.584
80	1679.663	1504.572	864.586	601.346	530.102
85	557.875	361.049	361.049	404.520	410.557
90	0.000	0.000	0.000	0.000	0.000

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ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixt
0-20	6424.32	N.A.	13.30
0-30	13516.57	N.A.	28.00
0-40	22053.57	N.A.	45.70
0-60	39564.35	N.A.	82.00
0-80	47725.34	N.A.	99.00
0-90	48221.87	N.A.	100.00
10-90	46569.02	N.A.	96.60
20-40	15629.25	N.A.	32.40
20-50	25102.68	N.A.	52.10
40-70	23146.21	N.A.	48.00
60-80	8160.98	N.A.	16.90
70-80	2525.55	N.A.	5.20
80-90	496.54	N.A.	1.00
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	48221.87	N.A.	100.00

Total Luminaire Efficiency = N.A.%

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	1652.85
10-20	4771.47
20-30	7092.25
30-40	8537.00
40-50	9473.43
50-60	8037.36
60-70	5635.43
70-80	2525.55
80-90	496.54
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	109	105	101	97	107	103	99	96	98	95	93	94	92	90	91	89	87	85
2	100	92	85	80	97	90	84	79	86	81	77	83	79	75	80	77	73	71
3	91	81	73	66	89	79	72	66	76	70	65	73	68	64	71	66	62	60
4	83	72	63	56	81	70	62	56	68	61	55	65	59	54	63	58	54	52
5	77	64	55	49	75	63	54	48	61	53	48	59	52	47	57	51	47	45
6	71	58	49	42	69	57	48	42	55	47	42	53	46	41	52	46	41	39
7	66	52	43	37	64	51	43	37	50	42	37	48	42	37	47	41	36	34
8	61	48	39	33	59	47	39	33	46	38	33	44	38	33	43	37	33	31
9	57	44	35	30	56	43	35	30	42	35	30	41	34	30	40	34	29	28
10	53	40	32	27	52	40	32	27	39	32	27	38	31	27	37	31	27	25

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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	23.0	24.6	23.4	25.0	25.3	21.5	23.1	21.8	23.4	23.7
	3H	24.8	26.3	25.2	26.6	27.0	22.9	24.4	23.3	24.7	25.1
	4H	25.3	26.7	25.7	27.0	27.4	23.3	24.7	23.7	25.0	25.4
	6H	25.6	26.9	26.0	27.3	27.7	23.4	24.7	23.8	25.1	25.4
	8H	25.7	26.9	26.2	27.3	27.7	23.4	24.6	23.9	25.0	25.4
	12H	25.8	26.9	26.2	27.3	27.7	23.5	24.6	23.9	25.0	25.4
4H	2H	23.4	24.8	23.8	25.1	25.5	22.1	23.5	22.5	23.9	24.2
	3H	25.4	26.6	25.8	27.0	27.4	23.8	25.0	24.2	25.4	25.8
	4H	26.0	27.0	26.4	27.4	27.9	24.3	25.3	24.7	25.7	26.2
	6H	26.4	27.3	26.9	27.8	28.2	24.4	25.3	24.9	25.8	26.2
	8H	26.6	27.4	27.0	27.8	28.3	24.5	25.3	24.9	25.7	26.2
	12H	26.6	27.4	27.1	27.9	28.3	24.5	25.2	25.0	25.7	26.2
8H	4H	26.1	26.9	26.6	27.4	27.8	24.5	25.3	25.0	25.8	26.3
	6H	26.6	27.3	27.1	27.8	28.3	24.7	25.4	25.2	25.9	26.3
	8H	26.8	27.4	27.3	27.9	28.4	24.7	25.3	25.2	25.9	26.3
	12H	26.9	27.4	27.4	27.9	28.5	24.8	25.4	25.3	25.8	26.4
12H	4H	26.1	26.8	26.6	27.3	27.8	24.5	25.3	25.0	25.8	26.2
	6H	26.6	27.2	27.1	27.7	28.2	24.7	25.3	25.2	25.8	26.3
	8H	26.8	27.3	27.3	27.8	28.4	24.8	25.3	25.3	25.8	26.4

Maximum UGR = 28.5

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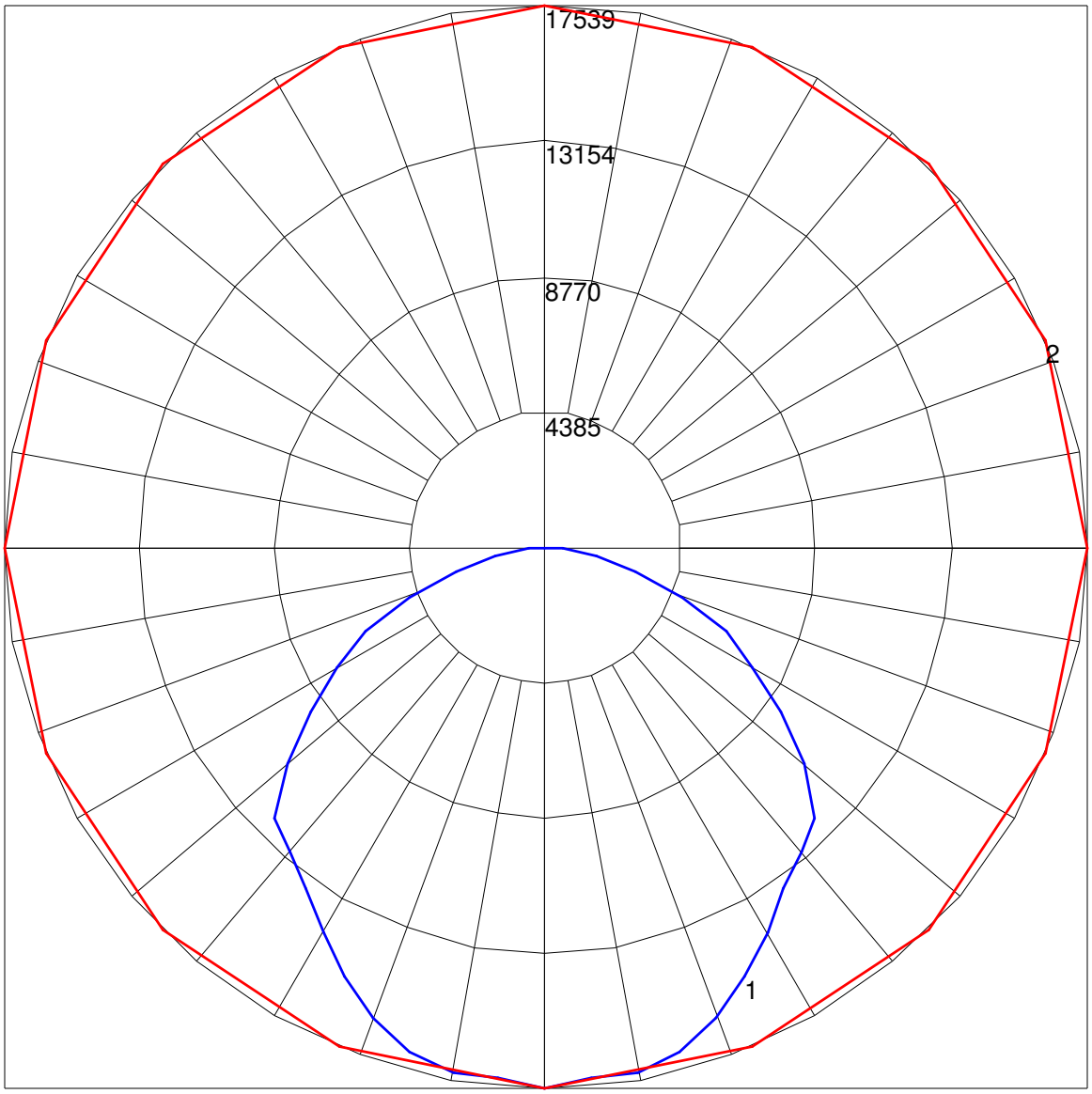
POLAR GRAPH



Maximum Candela = 17539.258 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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