H.E. WILLIAMS, INC.

IES INDOOR REPORT
PHOTOMETRIC FILENAME : GL-8-L600-850-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-L600-850-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	62086
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	155
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	28841	28906	29223
55	26627	27787	20947
65	25045	20062	20424
75	19196	12795	11820
85	10530	6815	7750

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CANDELA TABULATION

	0.0	22.5	45.0	67.5	90.0
0	22581.800	22581.800	22581.800	22581.800	22581.800
5	22256.870	22250.652	22256.870	22264.644	22270.863
10	22236.660	22221.113	22236.660	22264.644	22264.644
15	21771.809	21799.793	21861.980	21869.754	21861.980
20	20926.060	20946.271	20982.029	21010.013	21010.013
25	19728.953	19784.921	19826.898	19749.164	19749.164
30	18587.814	18651.556	18601.806	18587.814	18580.040
35	17368.941	17452.894	17396.925	17432.683	17438.902
40	16594.708	16700.426	16614.919	16664.668	16714.418
45	15960.396	16044.349	15996.154	16115.865	16171.833
50	14107.212	14240.915	14368.399	14466.344	14376.172
55	11952.418	12156.082	12473.238	9811.617	9402.735
60	10015.281	10212.726	10220.499	8092.135	8127.893
65	8283.362	8389.080	6635.396	6832.841	6755.106
70	6071.045	6352.443	5191.093	4542.790	3641.072
75	3888.267	3211.979	2591.660	2641.410	2394.215
80	2162.567	1937.138	1113.154	774.233	682.507
85	718.264	464.851	464.851	520.819	528.593
90	0.000	0.000	0.000	0.000	0.000

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ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixt
0-20	8271.31	N.A.	13.30
0-30	17402.59	N.A.	28.00
0-40	28393.98	N.A.	45.70
0-60	50939.12	N.A.	82.00
0-80	61446.39	N.A.	99.00
0-90	62085.68	N.A.	100.00
10-90	59957.63	N.A.	96.60
20-40	20122.66	N.A.	32.40
20-50	32319.7	N.A.	52.10
40-70	29800.76	N.A.	48.00
60-80	10507.27	N.A.	16.90
70-80	3251.65	N.A.	5.20
80-90	639.29	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	62085.68	N.A.	100.00

Total Luminaire Efficiency = N.A.%

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	2128.05
10-20	6143.27
20-30	9131.28
30-40	10991.39
40-50	12197.04
50-60	10348.1
60-70	7255.62
70-80	3251.65
80-90	639.29
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	23.8	25.4	24.2	25.8	26.1	22.3	23.9	22.6	24.2	24.5
	3H	25.6	27.1	26.0	27.4	27.8	23.7	25.2	24.1	25.5	25.9
	4H	26.1	27.5	26.5	27.8	28.2	24.1	25.5	24.5	25.8	26.2
	6H	26.4	27.7	26.8	28.1	28.5	24.2	25.5	24.6	25.9	26.2
	8H	26.5	27.7	27.0	28.1	28.5	24.2	25.4	24.7	25.8	26.2
	12H	26.6	27.7	27.0	28.1	28.5	24.3	25.4	24.7	25.8	26.2
4H	2H	24.2	25.6	24.6	25.9	26.3	22.9	24.3	23.3	24.7	25.0
	3H	26.2	27.4	26.6	27.8	28.2	24.6	25.8	25.0	26.2	26.6
	4H	26.8	27.8	27.2	28.2	28.7	25.1	26.1	25.5	26.5	27.0
	6H	27.2	28.1	27.7	28.6	29.0	25.2	26.1	25.7	26.6	27.0
	8H	27.4	28.2	27.8	28.6	29.1	25.3	26.1	25.7	26.5	27.0
	12H	27.4	28.2	27.9	28.7	29.1	25.3	26.0	25.8	26.5	27.0
8H	4H	26.9	27.7	27.4	28.2	28.6	25.3	26.1	25.8	26.6	27.1
	6H	27.4	28.1	27.9	28.6	29.1	25.5	26.2	26.0	26.7	27.1
	8H	27.6	28.2	28.1	28.7	29.2	25.5	26.1	26.0	26.7	27.1
	12H	27.7	28.2	28.2	28.7	29.3	25.6	26.2	26.1	26.6	27.2
12H	4H	26.9	27.6	27.4	28.1	28.6	25.3	26.1	25.8	26.6	27.0
	6H	27.4	28.0	27.9	28.5	29.0	25.5	26.1	26.0	26.6	27.1
	8H	27.6	28.1	28.1	28.6	29.2	25.6	26.1	26.1	26.6	27.2

Maximum UGR = 29.3

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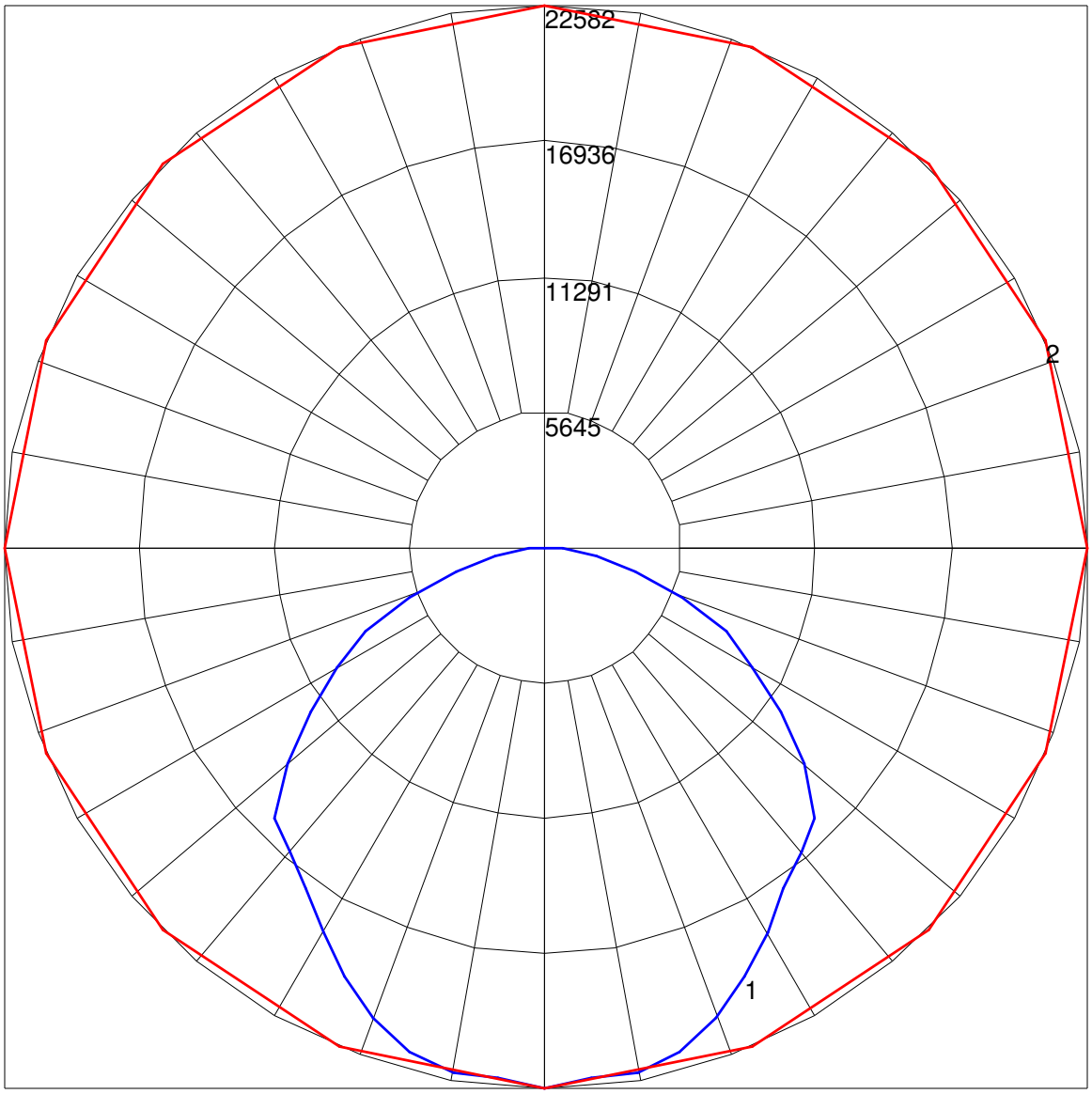
POLAR GRAPH



Maximum Candela = 22581.8 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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