H.E. WILLIAMS, INC.

IES INDOOR REPORT
PHOTOMETRIC FILENAME : GL-8-L600-950-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-L600-950-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	51839
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	130
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	24081	24135	24400
55	22232	23201	17490
65	20911	16751	17053
75	16028	10683	9869
85	8792	5690	6471

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CANDELA TABULATION

	0.0	22.5	45.0	67.5	90.0
0	18854.700	18854.700	18854.700	18854.700	18854.700
5	18583.400	18578.208	18583.400	18589.890	18595.083
10	18566.525	18553.544	18566.525	18589.890	18589.890
15	18178.397	18201.763	18253.686	18260.176	18253.686
20	17472.238	17489.113	17518.969	17542.335	17542.335
25	16472.712	16519.443	16554.491	16489.587	16489.587
30	15519.917	15573.138	15531.600	15519.917	15513.426
35	14502.217	14572.314	14525.583	14555.439	14560.631
40	13855.770	13944.040	13872.646	13914.184	13955.723
45	13326.151	13396.248	13356.007	13455.960	13502.691
50	11778.833	11890.468	11996.911	12078.691	12003.402
55	9979.686	10149.735	10414.544	8192.221	7850.824
60	8362.270	8527.127	8533.618	6756.538	6786.394
65	6916.202	7004.472	5540.231	5705.088	5640.184
70	5069.026	5303.980	4334.309	3793.007	3040.118
75	3246.513	2681.846	2163.909	2205.448	1999.053
80	1805.638	1617.415	929.430	646.447	569.860
85	599.716	388.128	388.128	434.859	441.349
90	0.000	0.000	0.000	0.000	0.000

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ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixt
0-20	6906.14	N.A.	13.30
0-30	14530.31	N.A.	28.00
0-40	23707.58	N.A.	45.70
0-60	42531.68	N.A.	82.00
0-80	51304.73	N.A.	99.00
0-90	51838.51	N.A.	100.00
10-90	50061.7	N.A.	96.60
20-40	16801.44	N.A.	32.40
20-50	26985.37	N.A.	52.10
40-70	24882.18	N.A.	48.00
60-80	8773.06	N.A.	16.90
70-80	2714.97	N.A.	5.20
80-90	533.78	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	51838.51	N.A.	100.00

Total Luminaire Efficiency = N.A.%

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	1776.81
10-20	5129.33
20-30	7624.17
30-40	9177.27
40-50	10183.93
50-60	8640.16
60-70	6058.09
70-80	2714.97
80-90	533.78
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	23.2	24.8	23.6	25.2	25.5	21.7	23.3	22.0	23.6	23.9
	3H	25.0	26.5	25.4	26.8	27.2	23.1	24.6	23.5	24.9	25.3
	4H	25.5	26.9	25.9	27.2	27.6	23.5	24.9	23.9	25.2	25.6
	6H	25.8	27.1	26.2	27.5	27.9	23.6	24.9	24.0	25.3	25.6
	8H	25.9	27.1	26.4	27.5	27.9	23.6	24.8	24.1	25.2	25.6
	12H	26.0	27.1	26.4	27.5	27.9	23.7	24.8	24.1	25.2	25.6
4H	2H	23.6	25.0	24.0	25.3	25.7	22.3	23.7	22.7	24.1	24.4
	3H	25.6	26.8	26.0	27.2	27.6	24.0	25.2	24.4	25.6	26.0
	4H	26.2	27.2	26.6	27.6	28.1	24.5	25.5	24.9	25.9	26.4
	6H	26.6	27.5	27.1	28.0	28.4	24.6	25.5	25.1	26.0	26.4
	8H	26.8	27.6	27.2	28.0	28.5	24.7	25.5	25.1	25.9	26.4
	12H	26.8	27.6	27.3	28.1	28.5	24.7	25.4	25.2	25.9	26.4
8H	4H	26.3	27.1	26.8	27.6	28.0	24.7	25.5	25.2	26.0	26.5
	6H	26.8	27.5	27.3	28.0	28.5	24.9	25.6	25.4	26.1	26.5
	8H	27.0	27.6	27.5	28.1	28.6	24.9	25.5	25.4	26.1	26.5
	12H	27.1	27.6	27.6	28.1	28.7	25.0	25.6	25.5	26.0	26.6
12H	4H	26.3	27.0	26.8	27.5	28.0	24.7	25.5	25.2	26.0	26.4
	6H	26.8	27.4	27.3	27.9	28.4	24.9	25.5	25.4	26.0	26.5
	8H	27.0	27.5	27.5	28.0	28.6	25.0	25.5	25.5	26.0	26.6

Maximum UGR = 28.7

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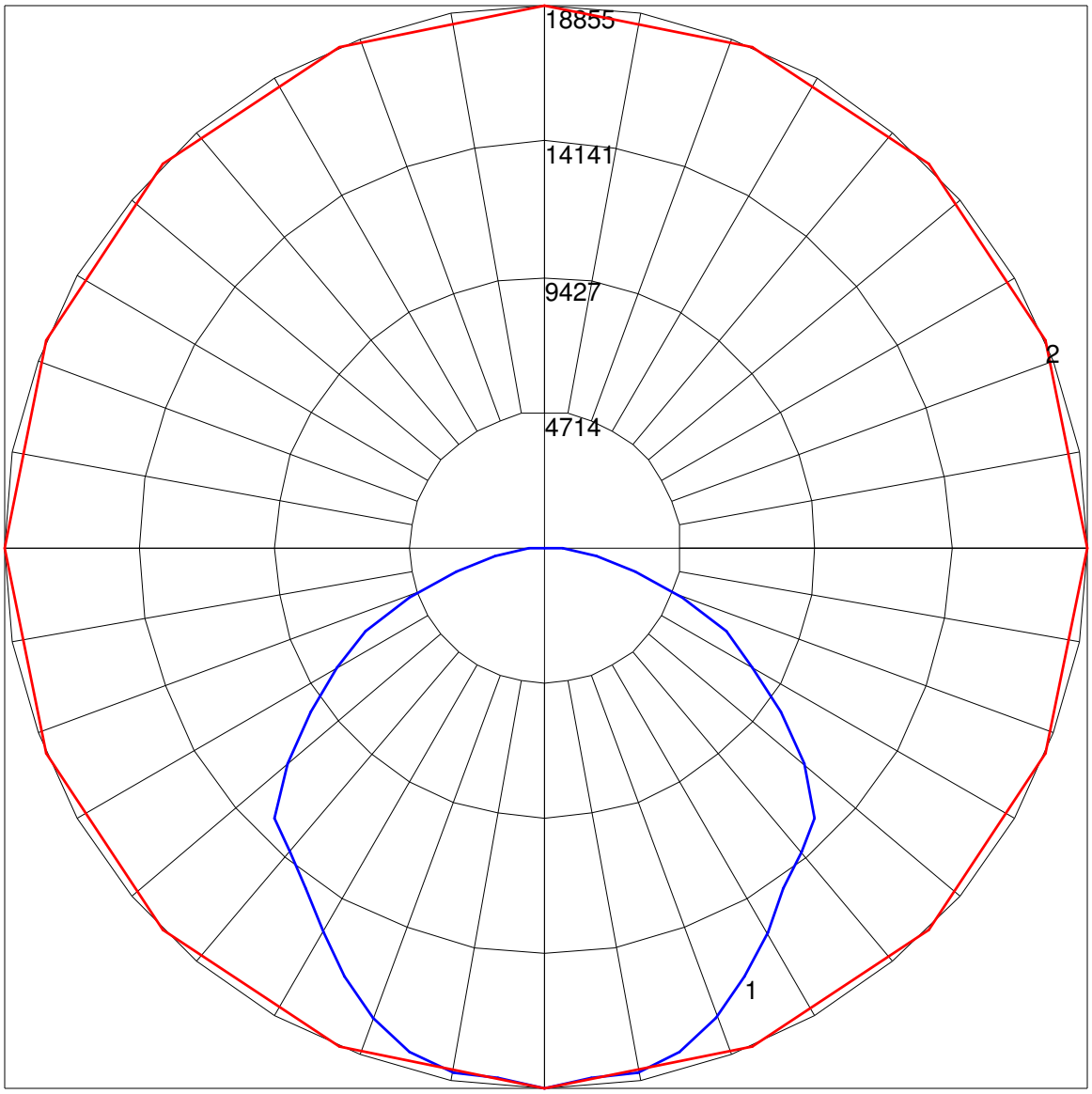
POLAR GRAPH



Maximum Candela = 18854.7 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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