H.E. WILLIAMS, INC.

IES INDOOR REPORT
PHOTOMETRIC FILENAME : GL-8-L300-930-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-L300-930-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	23777
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	124
Total Luminaire Watts	192
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	11045	11070	11192
55	10197	10642	8022
65	9591	7683	7822
75	7352	4900	4527
85	4033	2610	2968

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CANDELA TABULATION

	0.0	22.5	45.0	67.5	90.0
0	8648.229	8648.229	8648.229	8648.229	8648.229
5	8523.790	8521.408	8523.790	8526.767	8529.148
10	8516.049	8510.095	8516.049	8526.767	8526.767
15	8338.024	8348.741	8372.557	8375.534	8372.557
20	8014.125	8021.865	8035.559	8046.276	8046.276
25	7555.664	7577.099	7593.175	7563.405	7563.405
30	7118.638	7143.050	7123.997	7118.638	7115.661
35	6651.842	6683.994	6662.560	6676.254	6678.636
40	6355.332	6395.819	6363.072	6382.125	6401.178
45	6112.407	6144.559	6126.102	6171.948	6193.382
50	5402.687	5453.892	5502.715	5540.225	5505.692
55	4577.458	4655.456	4776.918	3757.588	3600.997
60	3835.586	3911.202	3914.179	3099.073	3112.767
65	3172.307	3212.795	2541.180	2616.796	2587.026
70	2325.049	2432.817	1988.051	1739.768	1394.434
75	1489.103	1230.103	992.537	1011.590	916.921
80	828.206	741.872	426.309	296.511	261.382
85	275.076	178.026	178.026	199.460	202.437
90	0.000	0.000	0.000	0.000	0.000

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ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixt
0-20	3167.69	N.A.	13.30
0-30	6664.73	N.A.	28.00
0-40	10874.14	N.A.	45.70
0-60	19508.33	N.A.	82.00
0-80	23532.33	N.A.	99.00
0-90	23777.16	N.A.	100.00
10-90	22962.18	N.A.	96.60
20-40	7706.45	N.A.	32.40
20-50	12377.59	N.A.	52.10
40-70	11412.9	N.A.	48.00
60-80	4024.00	N.A.	16.90
70-80	1245.3	N.A.	5.20
80-90	244.83	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	23777.16	N.A.	100.00

Total Luminaire Efficiency = N.A.%

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	814.98
10-20	2352.71
20-30	3497.04
30-40	4209.41
40-50	4671.14
50-60	3963.05
60-70	2778.71
70-80	1245.3
80-90	244.83
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	20.5	22.1	20.9	22.5	22.8	19.0	20.6	19.3	20.9	21.2
	3H	22.3	23.8	22.7	24.1	24.5	20.4	21.9	20.8	22.2	22.6
	4H	22.8	24.2	23.2	24.5	24.9	20.8	22.2	21.2	22.5	22.9
	6H	23.1	24.4	23.5	24.8	25.2	20.9	22.2	21.3	22.6	22.9
	8H	23.2	24.4	23.7	24.8	25.2	20.9	22.1	21.4	22.5	22.9
	12H	23.3	24.4	23.7	24.8	25.2	21.0	22.1	21.4	22.5	22.9
4H	2H	20.9	22.3	21.3	22.6	23.0	19.6	21.0	20.0	21.4	21.7
	3H	22.9	24.1	23.3	24.5	24.9	21.3	22.5	21.7	22.9	23.3
	4H	23.5	24.5	23.9	24.9	25.4	21.8	22.8	22.2	23.2	23.7
	6H	23.9	24.8	24.4	25.3	25.7	21.9	22.8	22.4	23.3	23.7
	8H	24.1	24.9	24.5	25.3	25.8	22.0	22.8	22.4	23.2	23.7
	12H	24.1	24.9	24.6	25.4	25.8	22.0	22.7	22.5	23.2	23.7
8H	4H	23.6	24.4	24.1	24.9	25.3	22.0	22.8	22.5	23.3	23.8
	6H	24.1	24.8	24.6	25.3	25.8	22.2	22.9	22.7	23.4	23.8
	8H	24.3	24.9	24.8	25.4	25.9	22.2	22.8	22.7	23.4	23.8
	12H	24.4	24.9	24.9	25.4	26.0	22.3	22.9	22.8	23.3	23.9
12H	4H	23.6	24.3	24.1	24.8	25.3	22.0	22.8	22.5	23.3	23.7
	6H	24.1	24.7	24.6	25.2	25.7	22.2	22.8	22.7	23.3	23.8
	8H	24.3	24.8	24.8	25.3	25.9	22.3	22.8	22.8	23.3	23.9

Maximum UGR = 26.0

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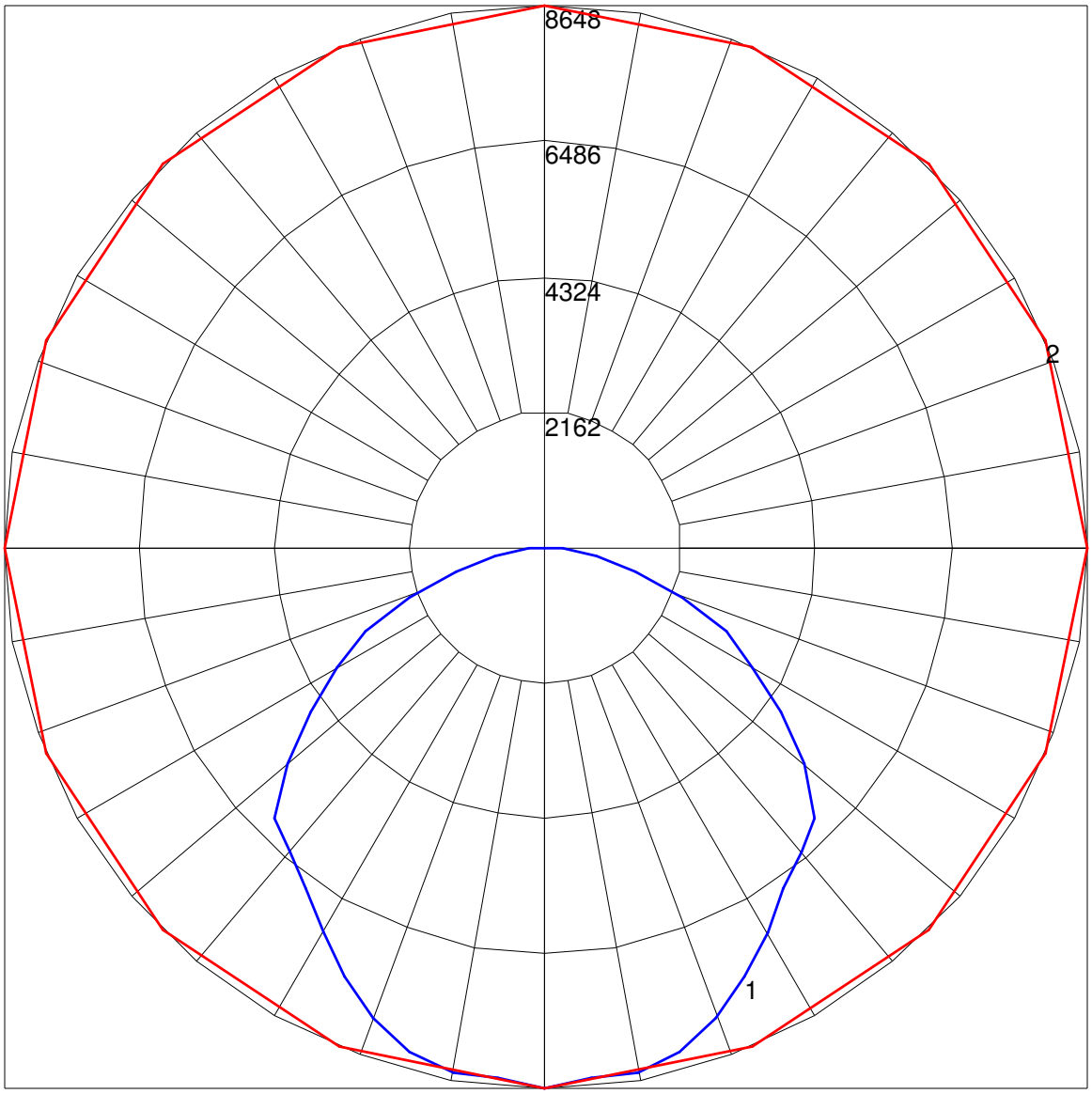
POLAR GRAPH



Maximum Candela = 8648.229 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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