H.E. WILLIAMS, INC.

IES INDOOR REPORT
PHOTOMETRIC FILENAME : GL-8-L300-830-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-L300-830-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	28894
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	150
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	13422	13452	13600
55	12392	12932	9748
65	11655	9337	9505
75	8934	5955	5501
85	4901	3172	3607

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CANDELA TABULATION

	0.0	22.5	45.0	67.5	90.0
0	10509.240	10509.240	10509.240	10509.240	10509.240
5	10358.023	10355.129	10358.023	10361.641	10364.535
10	10348.617	10341.382	10348.617	10361.641	10361.641
15	10132.282	10145.306	10174.247	10177.865	10174.247
20	9738.683	9748.089	9764.730	9777.754	9777.754
25	9181.567	9207.614	9227.149	9190.973	9190.973
30	8650.498	8680.162	8657.009	8650.498	8646.880
35	8083.252	8122.322	8096.275	8112.916	8115.811
40	7722.935	7772.135	7732.341	7755.494	7778.647
45	7427.736	7466.806	7444.377	7500.088	7526.135
50	6565.291	6627.514	6686.843	6732.426	6690.461
55	5562.481	5657.263	5804.863	4566.184	4375.896
60	4660.966	4752.854	4756.471	3765.962	3782.603
65	3854.956	3904.156	3088.016	3179.904	3143.728
70	2825.376	2956.334	2415.859	2114.148	1694.502
75	1809.543	1494.808	1206.121	1229.274	1114.233
80	1006.427	901.516	518.046	360.317	317.629
85	334.270	216.335	216.335	242.382	245.999
90	0.000	0.000	0.000	0.000	0.000

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ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixt
0-20	3849.35	N.A.	13.30
0-30	8098.91	N.A.	28.00
0-40	13214.14	N.A.	45.70
0-60	23706.32	N.A.	82.00
0-80	28596.25	N.A.	99.00
0-90	28893.77	N.A.	100.00
10-90	27903.41	N.A.	96.60
20-40	9364.79	N.A.	32.40
20-50	15041.12	N.A.	52.10
40-70	13868.84	N.A.	48.00
60-80	4889.93	N.A.	16.90
70-80	1513.27	N.A.	5.20
80-90	297.52	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	28893.77	N.A.	100.00

Total Luminaire Efficiency = N.A.%

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	990.36
10-20	2858.99
20-30	4249.56
30-40	5115.23
40-50	5676.32
50-60	4815.86
60-70	3376.66
70-80	1513.27
80-90	297.52
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	21.2	22.8	21.6	23.2	23.5	19.7	21.3	20.0	21.6	21.9
	3H	23.0	24.5	23.4	24.8	25.2	21.1	22.6	21.5	22.9	23.3
	4H	23.5	24.9	23.9	25.2	25.6	21.5	22.9	21.9	23.2	23.6
	6H	23.8	25.1	24.2	25.5	25.9	21.6	22.9	22.0	23.3	23.6
	8H	23.9	25.1	24.4	25.5	25.9	21.6	22.8	22.1	23.2	23.6
	12H	24.0	25.1	24.4	25.5	25.9	21.7	22.8	22.1	23.2	23.6
4H	2H	21.6	23.0	22.0	23.3	23.7	20.3	21.7	20.7	22.1	22.4
	3H	23.6	24.8	24.0	25.2	25.6	22.0	23.2	22.4	23.6	24.0
	4H	24.2	25.2	24.6	25.6	26.1	22.5	23.5	22.9	23.9	24.4
	6H	24.6	25.5	25.1	26.0	26.4	22.6	23.5	23.1	24.0	24.4
	8H	24.8	25.6	25.2	26.0	26.5	22.7	23.5	23.1	23.9	24.4
	12H	24.8	25.6	25.3	26.1	26.5	22.7	23.4	23.2	23.9	24.4
8H	4H	24.3	25.1	24.8	25.6	26.0	22.7	23.5	23.2	24.0	24.5
	6H	24.8	25.5	25.3	26.0	26.5	22.9	23.6	23.4	24.1	24.5
	8H	25.0	25.6	25.5	26.1	26.6	22.9	23.5	23.4	24.1	24.5
	12H	25.1	25.6	25.6	26.1	26.7	23.0	23.6	23.5	24.0	24.6
12H	4H	24.3	25.0	24.8	25.5	26.0	22.7	23.5	23.2	24.0	24.4
	6H	24.8	25.4	25.3	25.9	26.4	22.9	23.5	23.4	24.0	24.5
	8H	25.0	25.5	25.5	26.0	26.6	23.0	23.5	23.5	24.0	24.6

Maximum UGR = 26.7

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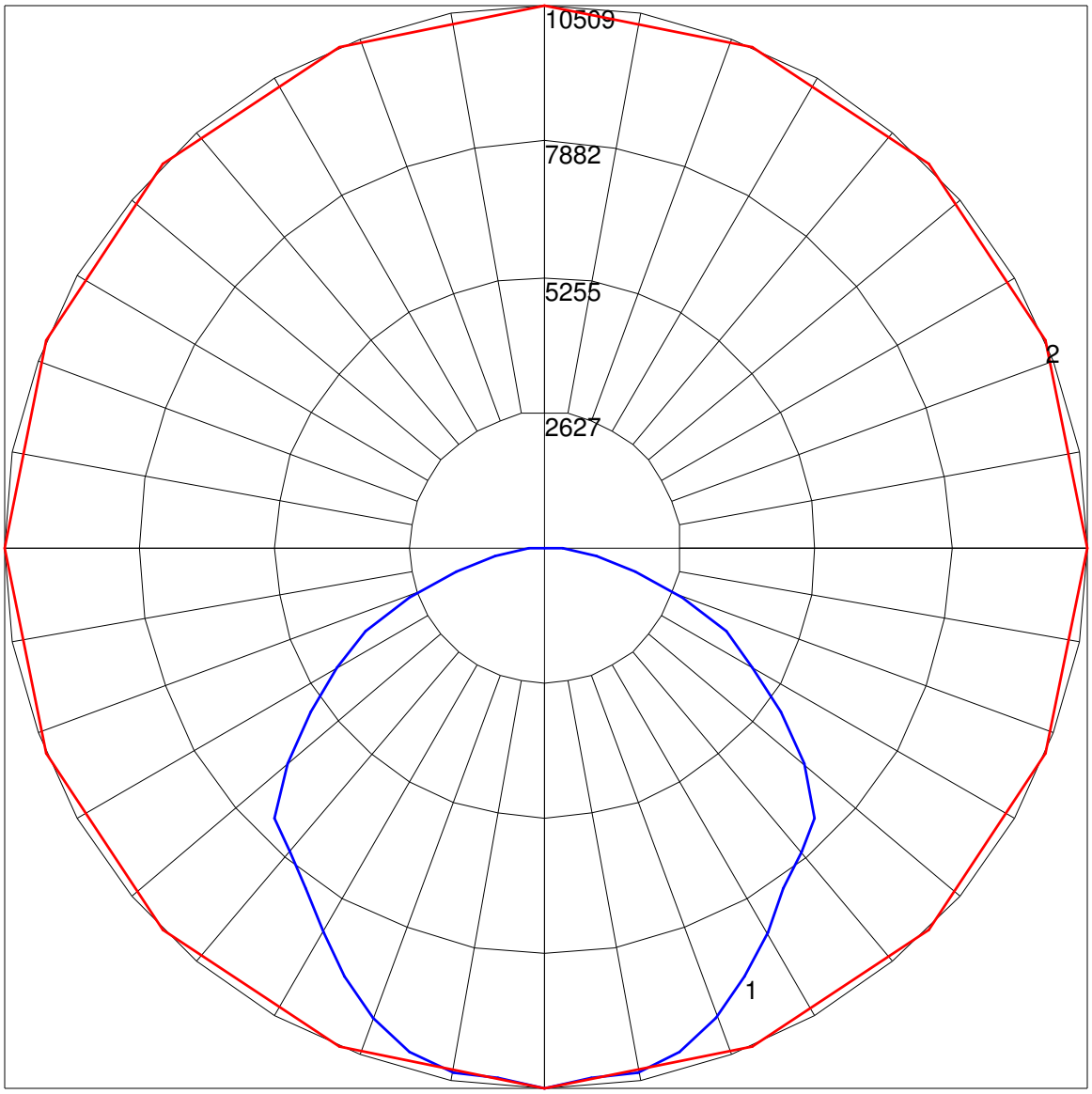
POLAR GRAPH



Maximum Candela = 10509.24 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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