H.E. WILLIAMS, INC.

IES INDOOR REPORT
PHOTOMETRIC FILENAME : GL-4-L300-930-SCHA118-DIM-UNV_.IES

DESCRIPTION INFORMATION (From Photometric File)

IESNA:LM-63-2002
[TEST] GEN FROM BALLABS TEST NO. 19725.0
[TESTLAB] BUILDING ACOUSTICS & LIGHTING LABORATORIES, INC
[ISSUEDATE] 2023-07-17
[MANUFAC] WILLIAMS INDOOR
[OTHER] H.E. WILLIAMS, INC - CARTHAGE, MO
[LUMINAIRE] 48 INCH LOW PROFILE LED HIGHBAY LUMINAIRE
[MORE] WHITE REFLECTOR w/.118"THK CLEAR ACRYLIC LENS
[MORE] 0-10V UNIVERSAL VOLTAGE 122-277V DRIVERS
[LUMCAT] GL-4-L300-930-SCHA118-DIM-UNV_
[LAMPCAT] 22 INCH HLM LINEAR LED ARRAYS
[_SEARCH_SOURCETYPE] LED
[_SEARCH_APPLICATION] Indoor, Commercial, Industrial, Manufacturing, High Bay
[_SEARCH_MOUNTING] Cable, Pendant, Suspended

CHARACTERISTICS

Lumens Per Lamp	N.A. (absolute)
Total Lamp Lumens	N.A. (absolute)
Luminaire Lumens	22024
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	110
Total Luminaire Watts	200
Ballast Factor	1.00
CIE Type	Direct
Spacing Criterion (0-180)	1.34
Spacing Criterion (90-270)	1.32
Spacing Criterion (Diagonal)	1.42
Basic Luminous Shape	Rectangular
Luminous Length (0-180)	3.83 ft
Luminous Width (90-270)	1.00 ft
Luminous Height	0.00 ft

LUMINANCE DATA (cd/sq.m)

Angle In Degrees	Average 0-Deg	Average 45-Deg	Average 90-Deg
45	23623	23139	17662
55	22413	16431	16646
65	18791	14572	14249
75	12200	8210	6062
85	2430	2481	2076

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CANDELA TABULATION

	0.0	22.5	45.0	67.5	90.0
0	8253.426	8253.426	8253.426	8253.426	8253.426
5	8345.446	8250.280	8190.507	8159.834	8167.699
10	8272.302	8177.137	8126.801	8092.982	8103.993
15	8129.947	8061.523	8010.401	7954.560	7975.009
20	7950.628	7852.316	7811.419	7761.870	7792.543
25	7710.748	7584.910	7574.685	7551.877	7556.596
30	7385.141	7269.527	7275.819	7241.214	7261.662
35	6968.302	6831.452	6899.877	6883.361	6888.080
40	6501.913	6348.547	6380.794	6464.162	6451.578
45	5953.729	5810.588	5831.824	5389.816	4451.534
50	5297.797	5214.429	5225.440	3849.869	3886.834
55	4582.091	4537.261	3359.099	3405.502	3403.142
60	3786.163	3747.625	2807.769	2862.037	2862.037
65	2830.578	2876.194	2195.094	2270.597	2146.331
70	1930.047	1528.937	1565.902	1440.850	1138.838
75	1125.467	884.015	757.390	694.471	559.194
80	447.513	389.313	284.709	232.801	216.285
85	75.503	67.638	77.076	77.863	64.492
90	0.000	0.000	0.000	0.000	0.000

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ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixt
0-20	3046.86	N.A.	13.80
0-30	6544.17	N.A.	29.70
0-40	10849.36	N.A.	49.30
0-60	18621.82	N.A.	84.60
0-80	21899.97	N.A.	99.40
0-90	22024.02	N.A.	100.00
10-90	21241.88	N.A.	96.40
20-40	7802.49	N.A.	35.40
20-50	12097.07	N.A.	54.90
40-70	10150.81	N.A.	46.10
60-80	3278.15	N.A.	14.90
70-80	899.80	N.A.	4.10
80-90	124.05	N.A.	0.60
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	22024.02	N.A.	100.00

Total Luminaire Efficiency = N.A.%

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	782.14
10-20	2264.73
20-30	3497.31
30-40	4305.18
40-50	4294.57
50-60	3477.89
60-70	2378.34
70-80	899.80
80-90	124.05
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	110	106	102	98	107	103	100	97	99	96	94	95	93	91	92	90	88	86
2	101	93	87	81	98	91	85	80	88	83	78	84	80	77	81	78	75	73
3	92	82	74	68	90	81	73	68	78	72	67	75	70	65	72	68	64	62
4	84	73	65	58	82	72	64	58	69	62	57	67	61	56	65	60	56	53
5	78	65	57	50	76	64	56	50	62	55	50	60	54	49	58	53	49	46
6	72	59	50	44	70	58	50	44	56	49	44	55	48	43	53	47	43	41
7	67	54	45	39	65	53	45	39	51	44	39	50	43	38	48	43	38	36
8	62	49	41	35	61	48	40	35	47	40	35	46	39	34	44	39	34	32
9	58	45	37	31	57	44	37	31	43	36	31	42	36	31	41	35	31	29
10	54	41	34	28	53	41	33	28	40	33	28	39	33	28	38	32	28	26

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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	23.4	24.9	23.7	25.2	25.6	21.4	23.0	21.8	23.3	23.6
	3H	24.6	26.0	24.9	26.3	26.7	22.6	24.0	23.0	24.4	24.7
	4H	24.9	26.2	25.3	26.6	27.0	22.8	24.2	23.2	24.5	24.9
	6H	25.1	26.3	25.5	26.6	27.0	22.9	24.1	23.3	24.5	24.9
	8H	25.1	26.2	25.5	26.6	27.0	22.9	24.0	23.3	24.4	24.8
	12H	25.1	26.2	25.5	26.5	27.0	22.9	24.0	23.3	24.4	24.8
4H	2H	23.6	24.9	24.0	25.3	25.7	22.0	23.3	22.4	23.6	24.0
	3H	25.0	26.1	25.4	26.5	26.9	23.4	24.5	23.8	24.9	25.3
	4H	25.4	26.4	25.8	26.8	27.2	23.7	24.6	24.1	25.1	25.5
	6H	25.6	26.4	26.1	26.9	27.4	23.8	24.6	24.2	25.0	25.5
	8H	25.6	26.4	26.1	26.9	27.3	23.7	24.5	24.2	25.0	25.4
	12H	25.6	26.3	26.1	26.8	27.3	23.7	24.4	24.2	24.9	25.4
8H	4H	25.4	26.2	25.9	26.7	27.1	23.8	24.6	24.3	25.0	25.5
	6H	25.7	26.3	26.2	26.8	27.3	23.9	24.6	24.4	25.0	25.5
	8H	25.7	26.3	26.2	26.8	27.3	23.9	24.5	24.4	25.0	25.5
	12H	25.7	26.2	26.2	26.7	27.3	23.9	24.4	24.4	24.9	25.5
12H	4H	25.4	26.1	25.9	26.6	27.1	23.8	24.5	24.3	25.0	25.4
	6H	25.6	26.2	26.2	26.7	27.2	23.9	24.5	24.4	24.9	25.5
	8H	25.7	26.2	26.2	26.7	27.3	23.9	24.4	24.4	24.9	25.5

Maximum UGR = 27.4

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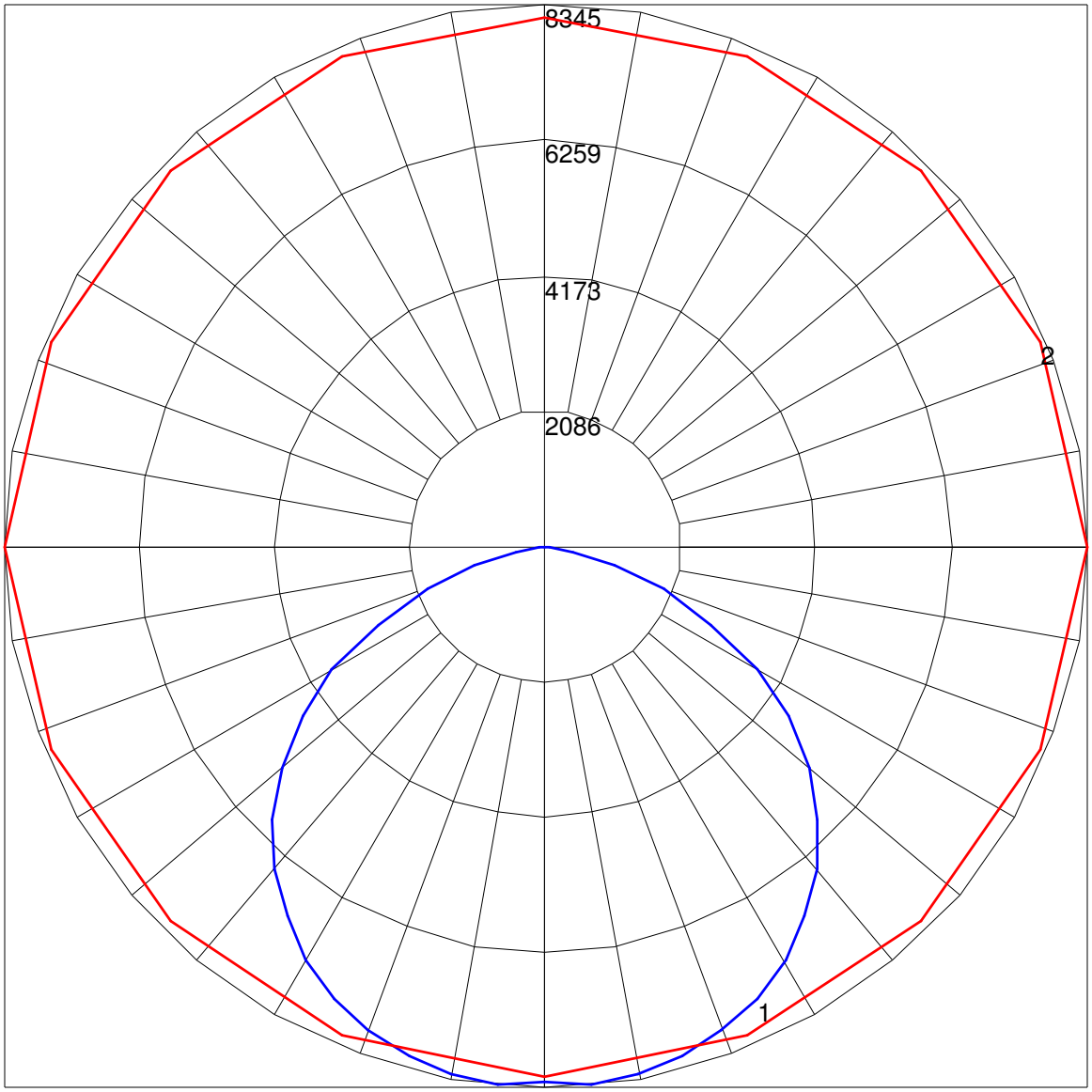
POLAR GRAPH



Maximum Candela = 8345.446 Located At Horizontal Angle = 0, Vertical Angle = 5
1 - Vertical Plane Through Horizontal Angles (0 - 180) (Through Max. Cd.)
2 - Horizontal Cone Through Vertical Angle (5) (Through Max. Cd.)

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