H.E. WILLIAMS, INC.

IES INDOOR REPORT
PHOTOMETRIC FILENAME : GL-4-L300-835-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-L300-835-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	27042
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	135
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	29005	28411	21687
55	27520	20174	20439
65	23073	17893	17495
75	14980	10081	7443
85	2984	3046	2549

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CANDELA TABULATION

	0.0	22.5	45.0	67.5	90.0
0	10133.951	10133.951	10133.951	10133.951	10133.951
5	10246.937	10130.088	10056.696	10019.034	10028.691
10	10157.128	10040.279	9978.475	9936.950	9950.470
15	9982.338	9898.323	9835.553	9766.989	9792.097
20	9762.160	9641.449	9591.233	9530.395	9568.057
25	9467.625	9313.115	9300.561	9272.556	9278.350
30	9067.829	8925.873	8933.598	8891.108	8916.216
35	8556.014	8387.983	8471.999	8451.719	8457.513
40	7983.359	7795.050	7834.643	7937.006	7921.555
45	7310.273	7134.518	7160.591	6617.874	5465.805
50	6504.888	6402.525	6416.044	4727.053	4772.440
55	5626.110	5571.066	4124.462	4181.438	4178.541
60	4648.832	4601.513	3447.513	3514.146	3514.146
65	3475.518	3531.528	2695.241	2787.947	2635.368
70	2369.803	1877.301	1922.689	1769.144	1398.319
75	1381.902	1085.436	929.959	852.704	686.606
80	549.478	478.017	349.580	285.844	265.565
85	92.706	83.049	94.638	95.603	79.187
90	0.000	0.000	0.000	0.000	0.000

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ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixt
0-20	3741.08	N.A.	13.80
0-30	8035.25	N.A.	29.70
0-40	13321.36	N.A.	49.30
0-60	22864.76	N.A.	84.60
0-80	26889.82	N.A.	99.40
0-90	27042.14	N.A.	100.00
10-90	26081.79	N.A.	96.40
20-40	9580.27	N.A.	35.40
20-50	14853.36	N.A.	54.90
40-70	12463.64	N.A.	46.10
60-80	4025.06	N.A.	14.90
70-80	1104.82	N.A.	4.10
80-90	152.31	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	27042.14	N.A.	100.00

Total Luminaire Efficiency = N.A.%

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	960.34
10-20	2780.74
20-30	4294.16
30-40	5286.11
40-50	5273.08
50-60	4270.32
60-70	2920.24
70-80	1104.82
80-90	152.31
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	24.2	25.7	24.5	26.0	26.4	22.2	23.8	22.6	24.1	24.4
	3H	25.4	26.8	25.7	27.1	27.5	23.4	24.8	23.8	25.2	25.5
	4H	25.7	27.0	26.1	27.4	27.8	23.6	25.0	24.0	25.3	25.7
	6H	25.9	27.1	26.3	27.4	27.8	23.7	24.9	24.1	25.3	25.7
	8H	25.9	27.0	26.3	27.4	27.8	23.7	24.8	24.1	25.2	25.6
	12H	25.9	27.0	26.3	27.3	27.8	23.7	24.8	24.1	25.2	25.6
4H	2H	24.4	25.7	24.8	26.1	26.5	22.8	24.1	23.2	24.4	24.8
	3H	25.8	26.9	26.2	27.3	27.7	24.2	25.3	24.6	25.7	26.1
	4H	26.2	27.2	26.6	27.6	28.0	24.5	25.4	24.9	25.9	26.3
	6H	26.4	27.2	26.9	27.7	28.2	24.6	25.4	25.0	25.8	26.3
	8H	26.4	27.2	26.9	27.7	28.1	24.5	25.3	25.0	25.8	26.2
	12H	26.4	27.1	26.9	27.6	28.1	24.5	25.2	25.0	25.7	26.2
8H	4H	26.2	27.0	26.7	27.5	27.9	24.6	25.4	25.1	25.8	26.3
	6H	26.5	27.1	27.0	27.6	28.1	24.7	25.4	25.2	25.8	26.3
	8H	26.5	27.1	27.0	27.6	28.1	24.7	25.3	25.2	25.8	26.3
	12H	26.5	27.0	27.0	27.5	28.1	24.7	25.2	25.2	25.7	26.3
12H	4H	26.2	26.9	26.7	27.4	27.9	24.6	25.3	25.1	25.8	26.2
	6H	26.4	27.0	27.0	27.5	28.0	24.7	25.3	25.2	25.7	26.3
	8H	26.5	27.0	27.0	27.5	28.1	24.7	25.2	25.2	25.7	26.3

Maximum UGR = 28.2

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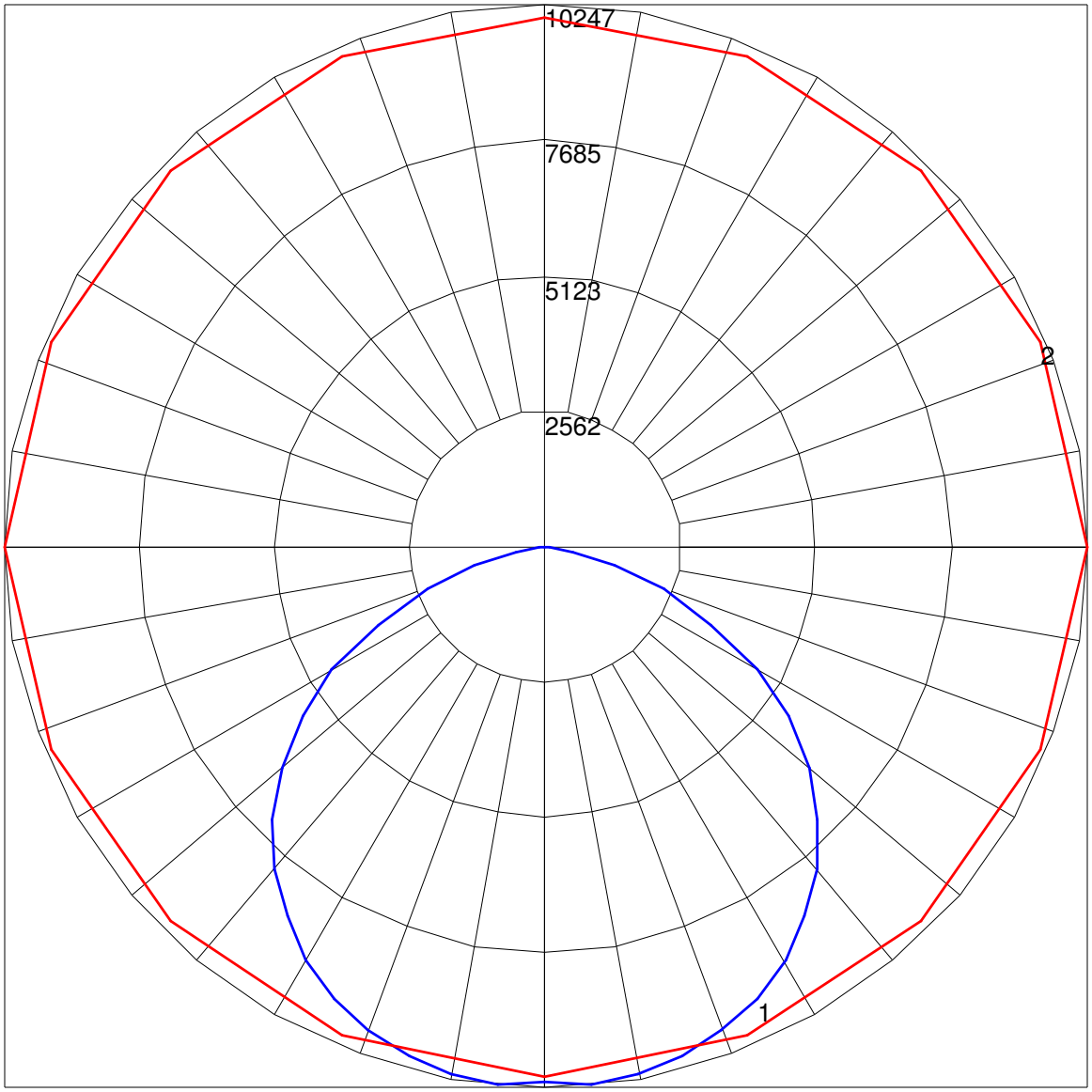
POLAR GRAPH



Maximum Candela = 10246.937 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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