H.E. WILLIAMS, INC.

IES INDOOR REPORT
PHOTOMETRIC FILENAME : GL-8-L300-840-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] 2023-07-20
[MANUFAC] WILLIAMS INDOOR
[OTHER] H.E. WILLIAMS, INC - CARTHAGE, MO
[LUMINAIRE] 96 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-8-L300-840-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	27841
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	145
Total Luminaire Watts	192
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)	8.00 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	14307	14014	10697
55	13575	9951	10082
65	11381	8826	8630
75	7389	4973	3671
85	1472	1503	1257

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CANDELA TABULATION

	0.0	22.5	45.0	67.5	90.0
0	10433.160	10433.160	10433.160	10433.160	10433.160
5	10549.481	10429.183	10353.624	10314.850	10324.792
10	10457.021	10336.722	10273.093	10230.342	10244.261
15	10277.070	10190.574	10125.951	10055.363	10081.212
20	10050.392	9926.117	9874.418	9811.783	9850.557
25	9747.160	9588.088	9575.163	9546.331	9552.296
30	9335.560	9189.413	9197.366	9153.621	9179.471
35	8808.633	8635.642	8722.137	8701.259	8707.224
40	8219.071	8025.202	8065.964	8171.349	8155.442
45	7526.112	7345.167	7372.011	6813.269	5627.185
50	6696.947	6591.562	6605.481	4866.621	4913.348
55	5792.223	5735.554	4246.238	4304.896	4301.914
60	4786.090	4737.374	3549.302	3617.902	3617.902
65	3578.134	3635.798	2774.819	2870.262	2713.178
70	2439.773	1932.729	1979.457	1821.379	1439.605
75	1422.704	1117.483	957.417	877.881	706.878
80	565.701	492.130	359.901	294.284	273.406
85	95.443	85.501	97.432	98.426	81.525
90	0.000	0.000	0.000	0.000	0.000

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ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixt
0-20	3851.54	N.A.	13.80
0-30	8272.49	N.A.	29.70
0-40	13714.68	N.A.	49.30
0-60	23539.85	N.A.	84.60
0-80	27683.76	N.A.	99.40
0-90	27840.57	N.A.	100.00
10-90	26851.87	N.A.	96.40
20-40	9863.13	N.A.	35.40
20-50	15291.91	N.A.	54.90
40-70	12831.64	N.A.	46.10
60-80	4143.9	N.A.	14.90
70-80	1137.44	N.A.	4.10
80-90	156.81	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	27840.57	N.A.	100.00

Total Luminaire Efficiency = N.A.%

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	988.70
10-20	2862.84
20-30	4420.95
30-40	5442.18
40-50	5428.77
50-60	4396.4
60-70	3006.46
70-80	1137.44
80-90	156.81
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	21.7	23.3	22.1	23.6	23.9	19.8	21.3	20.1	21.6	22.0
	3H	22.9	24.3	23.3	24.7	25.0	21.0	22.4	21.4	22.7	23.1
	4H	23.3	24.6	23.7	24.9	25.3	21.2	22.5	21.6	22.9	23.2
	6H	23.4	24.6	23.8	25.0	25.4	21.2	22.5	21.7	22.8	23.2
	8H	23.4	24.6	23.8	25.0	25.4	21.2	22.4	21.6	22.8	23.2
	12H	23.4	24.5	23.8	24.9	25.3	21.2	22.3	21.6	22.7	23.1
4H	2H	22.0	23.3	22.4	23.6	24.0	20.3	21.6	20.7	22.0	22.4
	3H	23.3	24.4	23.7	24.8	25.2	21.7	22.8	22.1	23.2	23.6
	4H	23.7	24.7	24.2	25.1	25.6	22.0	23.0	22.4	23.4	23.8
	6H	23.9	24.8	24.4	25.2	25.7	22.1	22.9	22.6	23.4	23.8
	8H	24.0	24.8	24.4	25.2	25.7	22.1	22.9	22.6	23.3	23.8
	12H	24.0	24.7	24.4	25.1	25.6	22.1	22.8	22.6	23.3	23.7
8H	4H	23.8	24.6	24.2	25.0	25.5	22.1	22.9	22.6	23.4	23.8
	6H	24.0	24.7	24.5	25.2	25.6	22.2	22.9	22.7	23.4	23.9
	8H	24.1	24.6	24.6	25.1	25.6	22.3	22.8	22.8	23.3	23.8
	12H	24.1	24.6	24.6	25.1	25.6	22.3	22.8	22.8	23.3	23.8
12H	4H	23.8	24.5	24.2	24.9	25.4	22.1	22.8	22.6	23.3	23.8
	6H	24.0	24.6	24.5	25.0	25.6	22.2	22.8	22.8	23.3	23.8
	8H	24.0	24.6	24.5	25.0	25.6	22.3	22.8	22.8	23.3	23.8

Maximum UGR = 25.7

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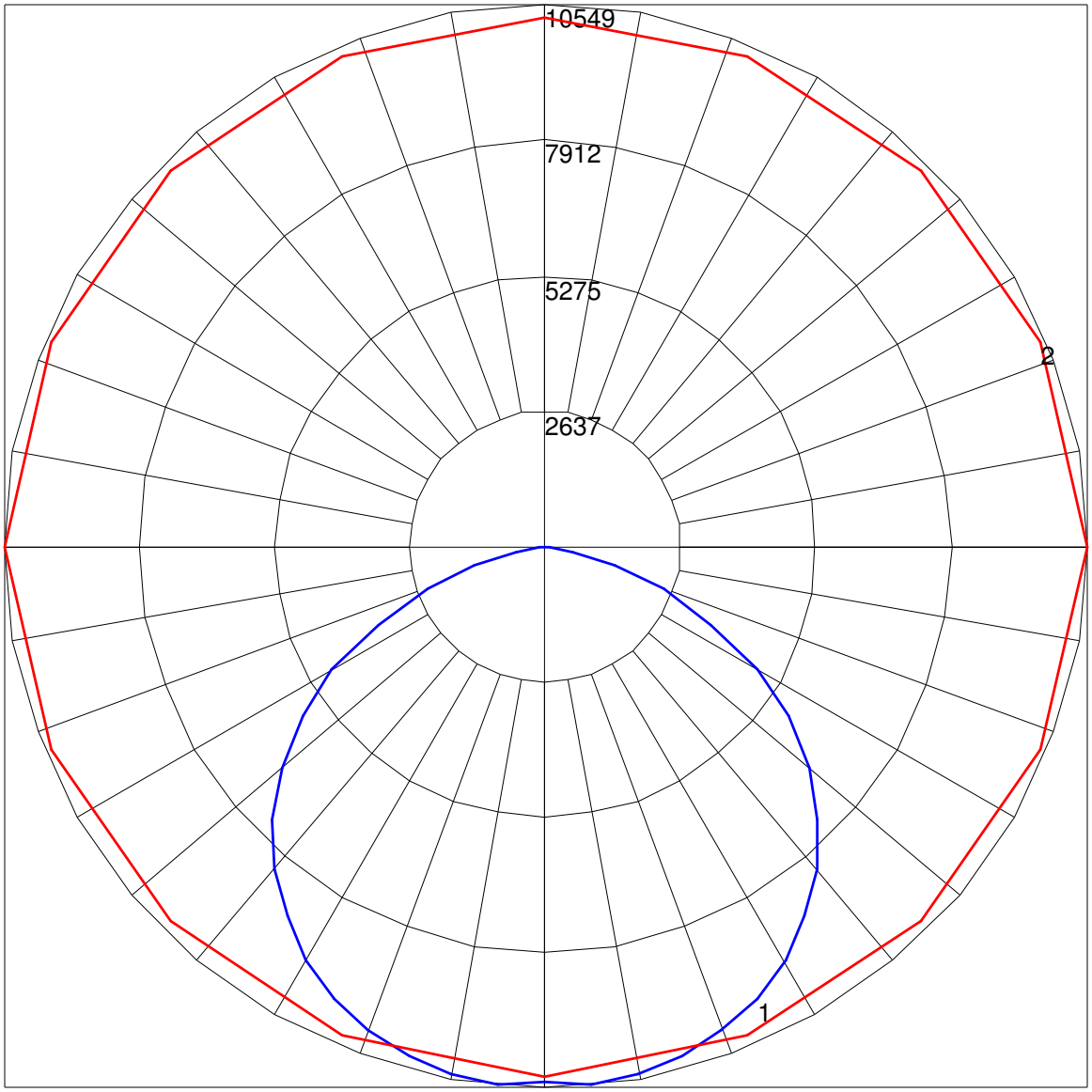
POLAR GRAPH



Maximum Candela = 10549.481 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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