H.E. WILLIAMS, INC.

IES INDOOR REPORT
PHOTOMETRIC FILENAME : GL-4-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] 2023-07-17
[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-L300-840-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	27878
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	139
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	29902	29290	22357
55	28371	20798	21071
65	23786	18446	18036
75	15443	10393	7673
85	3077	3141	2628

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CANDELA TABULATION

	0.0	22.5	45.0	67.5	90.0
0	10447.372	10447.372	10447.372	10447.372	10447.372
5	10563.852	10443.390	10367.728	10328.901	10338.856
10	10471.265	10350.803	10287.088	10244.279	10258.216
15	10291.070	10204.456	10139.745	10069.061	10094.945
20	10064.083	9939.638	9887.869	9825.149	9863.976
25	9760.438	9601.149	9588.207	9559.336	9565.309
30	9348.278	9201.931	9209.895	9166.091	9191.975
35	8820.632	8647.406	8734.019	8713.112	8719.086
40	8230.267	8036.134	8076.952	8182.481	8166.552
45	7536.364	7355.173	7382.053	6822.550	5634.851
50	6706.070	6600.541	6614.479	4873.250	4920.041
55	5800.113	5743.367	4252.023	4310.761	4307.774
60	4792.610	4743.828	3554.137	3622.831	3622.831
65	3583.009	3640.751	2778.599	2874.172	2716.874
70	2443.096	1935.362	1982.153	1823.860	1441.566
75	1424.642	1119.006	958.721	879.077	707.841
80	566.472	492.801	360.392	294.685	273.778
85	95.573	85.618	97.565	98.560	81.636
90	0.000	0.000	0.000	0.000	0.000

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ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixt
0-20	3856.79	N.A.	13.80
0-30	8283.76	N.A.	29.70
0-40	13733.36	N.A.	49.30
0-60	23571.92	N.A.	84.60
0-80	27721.47	N.A.	99.40
0-90	27878.49	N.A.	100.00
10-90	26888.45	N.A.	96.40
20-40	9876.57	N.A.	35.40
20-50	15312.74	N.A.	54.90
40-70	12849.12	N.A.	46.10
60-80	4149.55	N.A.	14.90
70-80	1138.99	N.A.	4.10
80-90	157.03	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	27878.49	N.A.	100.00

Total Luminaire Efficiency = N.A.%

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	990.04
10-20	2866.74
20-30	4426.97
30-40	5449.6
40-50	5436.17
50-60	4402.39
60-70	3010.56
70-80	1138.99
80-90	157.03
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	24.3	25.8	24.6	26.1	26.5	22.3	23.9	22.7	24.2	24.5
	3H	25.5	26.9	25.8	27.2	27.6	23.5	24.9	23.9	25.3	25.6
	4H	25.8	27.1	26.2	27.5	27.9	23.7	25.1	24.1	25.4	25.8
	6H	26.0	27.2	26.4	27.5	27.9	23.8	25.0	24.2	25.4	25.8
	8H	26.0	27.1	26.4	27.5	27.9	23.8	24.9	24.2	25.3	25.7
	12H	26.0	27.1	26.4	27.4	27.9	23.8	24.9	24.2	25.3	25.7
4H	2H	24.5	25.8	24.9	26.2	26.6	22.9	24.2	23.3	24.5	24.9
	3H	25.9	27.0	26.3	27.4	27.8	24.3	25.4	24.7	25.8	26.2
	4H	26.3	27.3	26.7	27.7	28.1	24.6	25.5	25.0	26.0	26.4
	6H	26.5	27.3	27.0	27.8	28.3	24.7	25.5	25.1	25.9	26.4
	8H	26.5	27.3	27.0	27.8	28.2	24.6	25.4	25.1	25.9	26.3
	12H	26.5	27.2	27.0	27.7	28.2	24.6	25.3	25.1	25.8	26.3
8H	4H	26.3	27.1	26.8	27.6	28.0	24.7	25.5	25.2	25.9	26.4
	6H	26.6	27.2	27.1	27.7	28.2	24.8	25.5	25.3	25.9	26.4
	8H	26.6	27.2	27.1	27.7	28.2	24.8	25.4	25.3	25.9	26.4
	12H	26.6	27.1	27.1	27.6	28.2	24.8	25.3	25.3	25.8	26.4
12H	4H	26.3	27.0	26.8	27.5	28.0	24.7	25.4	25.2	25.9	26.3
	6H	26.5	27.1	27.1	27.6	28.1	24.8	25.4	25.3	25.8	26.4
	8H	26.6	27.1	27.1	27.6	28.2	24.8	25.3	25.3	25.8	26.4

Maximum UGR = 28.3

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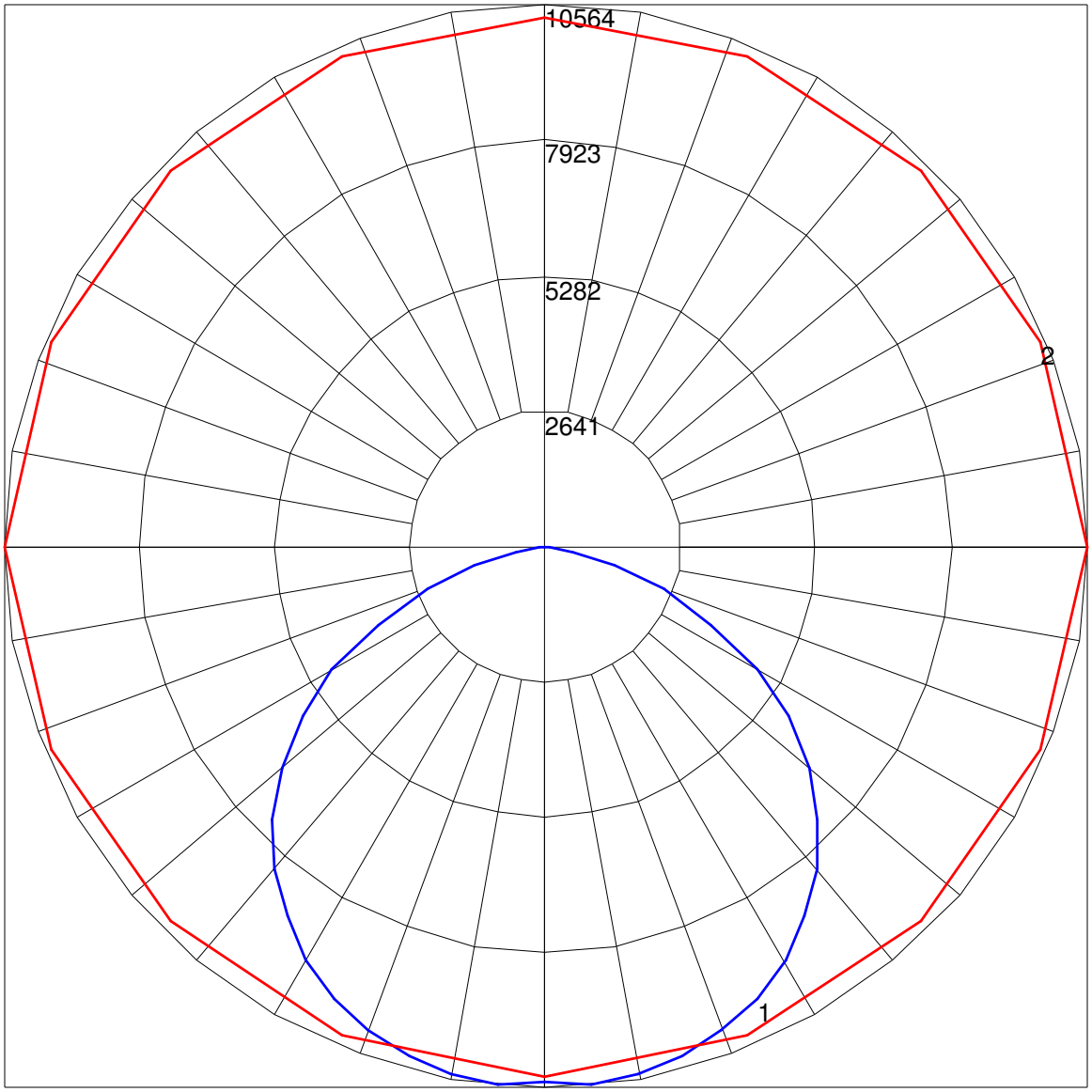
POLAR GRAPH



Maximum Candela = 10563.852 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.)