H.E. WILLIAMS, INC.

IES INDOOR REPORT
PHOTOMETRIC FILENAME : GL-4-L300-830-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-L300-830-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	26763
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	134
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	28706	28118	21463
55	27236	19966	20228
65	22835	17708	17315
75	14825	9977	7366
85	2953	3015	2523

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CANDELA TABULATION

	0.0	22.5	45.0	67.5	90.0
0	10029.477	10029.477	10029.477	10029.477	10029.477
5	10141.297	10025.654	9953.018	9915.744	9925.301
10	10052.414	9936.770	9875.603	9834.507	9847.887
15	9879.426	9796.277	9734.155	9666.297	9691.147
20	9661.519	9542.052	9492.354	9432.143	9469.416
25	9370.020	9217.102	9204.678	9176.961	9182.696
30	8974.346	8833.853	8841.499	8799.446	8824.295
35	8467.807	8301.509	8384.658	8364.587	8370.322
40	7901.056	7714.688	7753.873	7855.181	7839.889
45	7234.909	7060.966	7086.770	6549.648	5409.457
50	6437.827	6336.519	6349.899	4678.320	4723.239
55	5568.108	5513.632	4081.942	4138.330	4135.463
60	4600.905	4554.074	3411.972	3477.917	3477.917
65	3439.688	3495.121	2667.455	2759.205	2608.199
70	2345.372	1857.948	1902.867	1750.905	1383.903
75	1367.656	1074.245	920.372	843.913	679.527
80	543.813	473.089	345.976	282.897	262.827
85	91.750	82.193	93.662	94.618	78.370
90	0.000	0.000	0.000	0.000	0.000

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ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixt
0-20	3702.52	N.A.	13.80
0-30	7952.41	N.A.	29.70
0-40	13184.02	N.A.	49.30
0-60	22629.04	N.A.	84.60
0-80	26612.61	N.A.	99.40
0-90	26763.35	N.A.	100.00
10-90	25812.91	N.A.	96.40
20-40	9481.51	N.A.	35.40
20-50	14700.23	N.A.	54.90
40-70	12335.15	N.A.	46.10
60-80	3983.57	N.A.	14.90
70-80	1093.43	N.A.	4.10
80-90	150.74	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	26763.35	N.A.	100.00

Total Luminaire Efficiency = N.A.%

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	950.44
10-20	2752.07
20-30	4249.89
30-40	5231.61
40-50	5218.72
50-60	4226.3
60-70	2890.14
70-80	1093.43
80-90	150.74
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	24.1	25.6	24.4	25.9	26.3	22.1	23.7	22.5	24.0	24.3
	3H	25.3	26.7	25.6	27.0	27.4	23.3	24.7	23.7	25.1	25.4
	4H	25.6	26.9	26.0	27.3	27.7	23.5	24.9	23.9	25.2	25.6
	6H	25.8	27.0	26.2	27.3	27.7	23.6	24.8	24.0	25.2	25.6
	8H	25.8	26.9	26.2	27.3	27.7	23.6	24.7	24.0	25.1	25.5
	12H	25.8	26.9	26.2	27.2	27.7	23.6	24.7	24.0	25.1	25.5
4H	2H	24.3	25.6	24.7	26.0	26.4	22.7	24.0	23.1	24.3	24.7
	3H	25.7	26.8	26.1	27.2	27.6	24.1	25.2	24.5	25.6	26.0
	4H	26.1	27.1	26.5	27.5	27.9	24.4	25.3	24.8	25.8	26.2
	6H	26.3	27.1	26.8	27.6	28.1	24.5	25.3	24.9	25.7	26.2
	8H	26.3	27.1	26.8	27.6	28.0	24.4	25.2	24.9	25.7	26.1
	12H	26.3	27.0	26.8	27.5	28.0	24.4	25.1	24.9	25.6	26.1
8H	4H	26.1	26.9	26.6	27.4	27.8	24.5	25.3	25.0	25.7	26.2
	6H	26.4	27.0	26.9	27.5	28.0	24.6	25.3	25.1	25.7	26.2
	8H	26.4	27.0	26.9	27.5	28.0	24.6	25.2	25.1	25.7	26.2
	12H	26.4	26.9	26.9	27.4	28.0	24.6	25.1	25.1	25.6	26.2
12H	4H	26.1	26.8	26.6	27.3	27.8	24.5	25.2	25.0	25.7	26.1
	6H	26.3	26.9	26.9	27.4	27.9	24.6	25.2	25.1	25.6	26.2
	8H	26.4	26.9	26.9	27.4	28.0	24.6	25.1	25.1	25.6	26.2

Maximum UGR = 28.1

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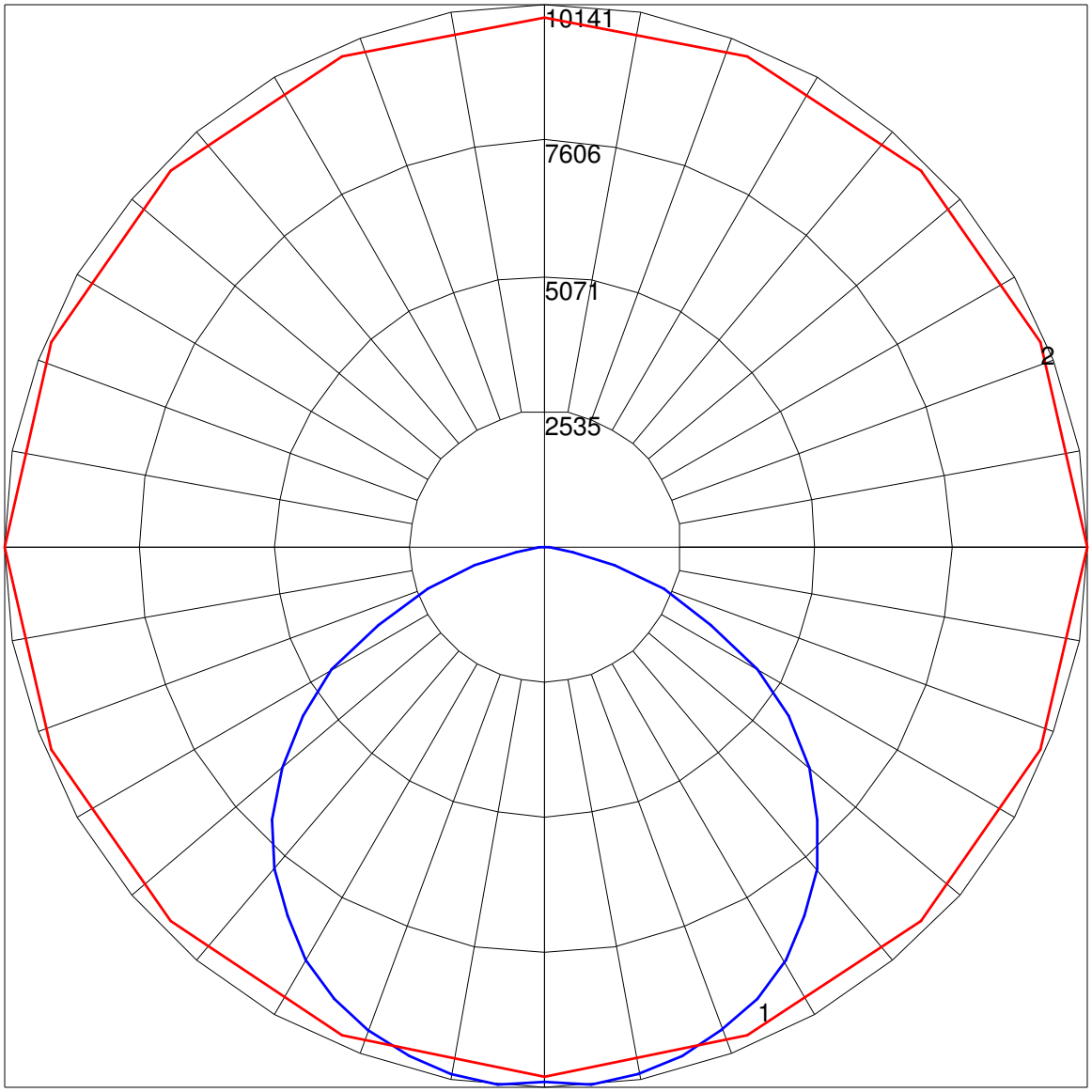
POLAR GRAPH



Maximum Candela = 10141.297 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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