

Scaled data based on original data using
LM-79-08 Approved Method: Electrical and Photometric Measurements of Solid-State
Lighting Products

Test Report Prepared for

Cooper Lighting Solutions

(formerly Eaton)

Brand: METALUX

Report Number: P730313

Luminaire Tested: **HBLED-LD5-12SE-N-CLI-UNV-L835**

Issue Date: 11/13/2023

Test Information

Test Method: LM-79-08
Report Number: P730313
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P23769)
Test Lab: INNOVATION CENTER
Issue Date: 11/13/2023
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: HBLED-LD5-12SE-N-CLI-UNV-L835
Description: 12000 LUMEN, SE HBLED WITH NARROW DISTRIBUTION AND CLEAR ACRYLIC LENS INSERT
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 10578.0 lumens
Efficiency: N/A
Efficacy: 141.0 lumens/watt
Spacing Criteria (0/90/45): 1.24 / 0.64 / 0.78
Luminous Opening: Rectangular (W 1.67' x L: 4' x H: 0')
CIE Type: Direct

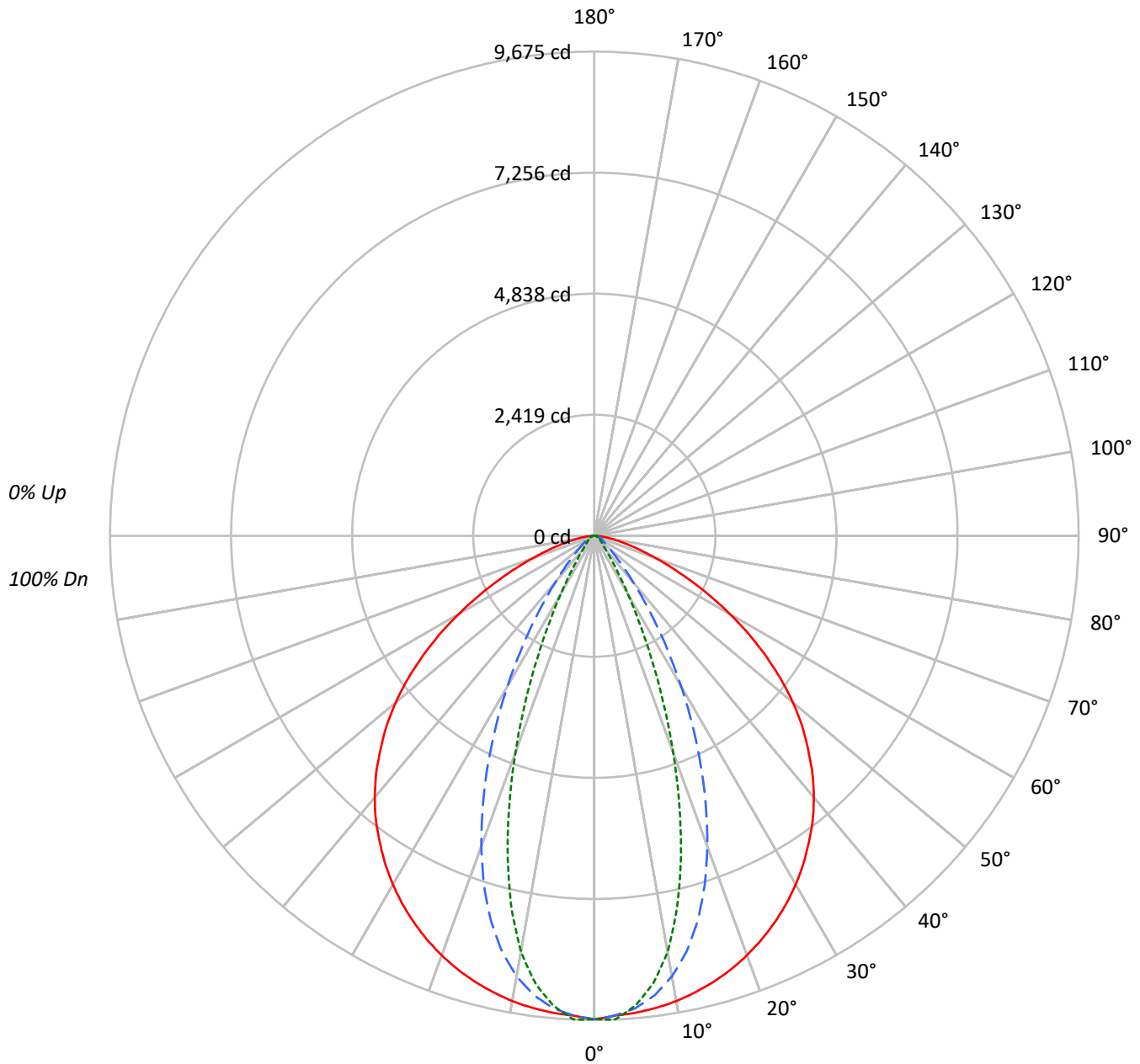
Input Watts (W): 75
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Luminous Intensity Polar Plot





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COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

RF	20				20					20					20					20
RC	80				70					50					30					10
RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10	50	30	10
RCR																				
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100		
1	112	108	105	102	109	106	103	101	102	100	98	98	96	95	95	93	92	90		
2	105	98	93	89	102	97	92	88	93	89	86	90	87	84	87	85	82	81		
3	98	90	84	79	96	88	83	78	86	81	77	83	79	75	81	77	74	72		
4	92	82	75	70	90	81	75	70	79	73	69	77	72	68	75	71	67	65		
5	86	76	69	63	84	75	68	63	73	67	62	71	66	62	69	65	61	60		
6	81	70	63	58	79	69	62	57	68	62	57	66	61	57	65	60	56	55		
7	76	65	58	53	75	64	58	53	63	57	52	62	56	52	60	56	52	50		
8	72	61	54	49	70	60	53	49	59	53	48	58	52	48	57	52	48	46		
9	68	57	50	45	67	56	50	45	55	49	45	54	49	45	53	48	45	43		
10	64	53	47	42	63	53	46	42	52	46	42	51	46	42	50	45	42	40		

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	15600	15600	15600
5°	15507	15352	15272
10°	15481	14657	13831
15°	15418	13323	11170
20°	15326	11337	7917
25°	15189	8939	4783
30°	15004	6452	2458
35°	14733	4218	1228
40°	14384	2534	716
45°	13787	1513	536
50°	13003	989	450
55°	11768	750	393
60°	10113	639	358
65°	8135	583	338
70°	6128	625	337
75°	4508	594	346
80°	3298	591	378
85°	2469	717	489



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	889.8	8.4
10°-20°	2213.7	20.9
20°-30°	2452.0	23.2
30°-40°	1964.5	18.6
40°-50°	1402.4	13.3
50°-60°	900.8	8.5
60°-70°	488.2	4.6
70°-80°	208.7	2.0
80°-90°	57.9	0.5
90°-100°	0.0	0.0
100°-110°	0.0	0.0
110°-120°	0.0	0.0
120°-130°	0.0	0.0
130°-140°	0.0	0.0
140°-150°	0.0	0.0
150°-160°	0.0	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-30°	5555.6	52.5
0°-40°	7520.1	71.1
0°-60°	9823.3	92.9
0°-90°	10578.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	10578.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	9662	9662	9662	9662	9662	
5°	9568	9603	9472	9442	9423	909
15°	9224	8936	7971	7044	6683	2603
25°	8526	7518	5018	3269	2685	3928
35°	7475	5407	2140	863	623	4674
45°	6038	3121	663	282	235	4654
55°	4181	1395	267	164	140	3726
65°	2129	573	153	105	88	2132
75°	723	210	95	66	56	803
85°	133	56	39	32	26	163
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	9662.2	9662.2	9662.2	9662.2	9662.2
2.5°	9598.6	9658.7	9594.0	9634.2	9675.4
5°	9567.6	9603.2	9472.4	9442.4	9422.6
7.5°	9513.6	9503.4	9257.7	9098.4	9021.5
10°	9442.4	9359.9	8940.1	8590.0	8436.3
12.5°	9340.6	9170.6	8510.0	7895.3	7634.7
15°	9224.1	8935.5	7970.6	7043.9	6682.6
17.5°	9084.6	8660.7	7325.8	6130.9	5654.0
20°	8919.7	8328.9	6598.1	5160.9	4607.7
22.5°	8735.5	7946.2	5818.9	4193.9	3600.6
25°	8525.8	7517.7	5017.9	3269.3	2685.0
27.5°	8299.4	7041.9	4221.5	2442.8	1909.9
30°	8047.9	6526.8	3460.6	1761.4	1318.6
32.5°	7773.6	5979.2	2753.8	1238.7	901.8
35°	7474.9	5406.7	2140.0	863.1	622.9
37.5°	7169.1	4822.5	1616.3	610.2	446.8
40°	6824.5	4240.2	1202.1	446.8	339.9
42.5°	6454.6	3669.3	889.6	344.0	275.3
45°	6037.8	3121.2	662.6	282.0	234.6
47.5°	5633.7	2610.2	503.3	240.2	204.1
50°	5176.7	2149.2	393.9	209.7	179.1
52.5°	4691.7	1743.5	319.6	184.7	157.8
55°	4180.7	1395.4	266.6	163.9	139.5
57.5°	3663.2	1105.3	228.0	146.0	124.2
60°	3131.9	884.0	198.0	130.8	110.9
62.5°	2613.3	706.9	173.0	117.6	99.2
65°	2129.3	573.0	152.7	105.4	88.5
67.5°	1681.9	452.9	142.5	94.6	79.9
70°	1298.2	352.7	132.3	84.5	71.3
72.5°	983.7	270.8	117.1	75.3	63.1
75°	722.6	209.7	95.2	66.2	55.5
77.5°	517.1	161.3	77.4	57.5	47.9
80°	354.7	120.1	63.6	49.4	40.7
82.5°	230.6	85.0	51.4	40.7	33.6
85°	133.3	55.5	38.7	32.1	26.4
87.5°	57.5	30.5	26.4	23.9	20.3
90°	0.0	0.0	0.0	0.0	0.0



Report Generated By 670246072 / DESKTOP-MV3F9LC





— 0°-180° - - 45°-225° - - - 90°-270°







(END OF REPORT)