

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: P#

Luminaire Tested: **HBLED-LD5-12SE-W-A-UNV-L850-ED1-U**

Issue Date: 3/3/2020

This test was performed under the Supervised Manufacturer's Testing Program. The results of this test have not been influenced by sources from within Cooper Lighting Solutions or from external interests.

Test Information

Test Method: LM-79-08
Report Number: P#
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P23761)
Test Lab: INNOVATION CENTER P2
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: HBLED-LD5-12SE-W-A-UNV-L850-ED1-U
Description: METALUX HIGH BAY LINEAR LED
Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

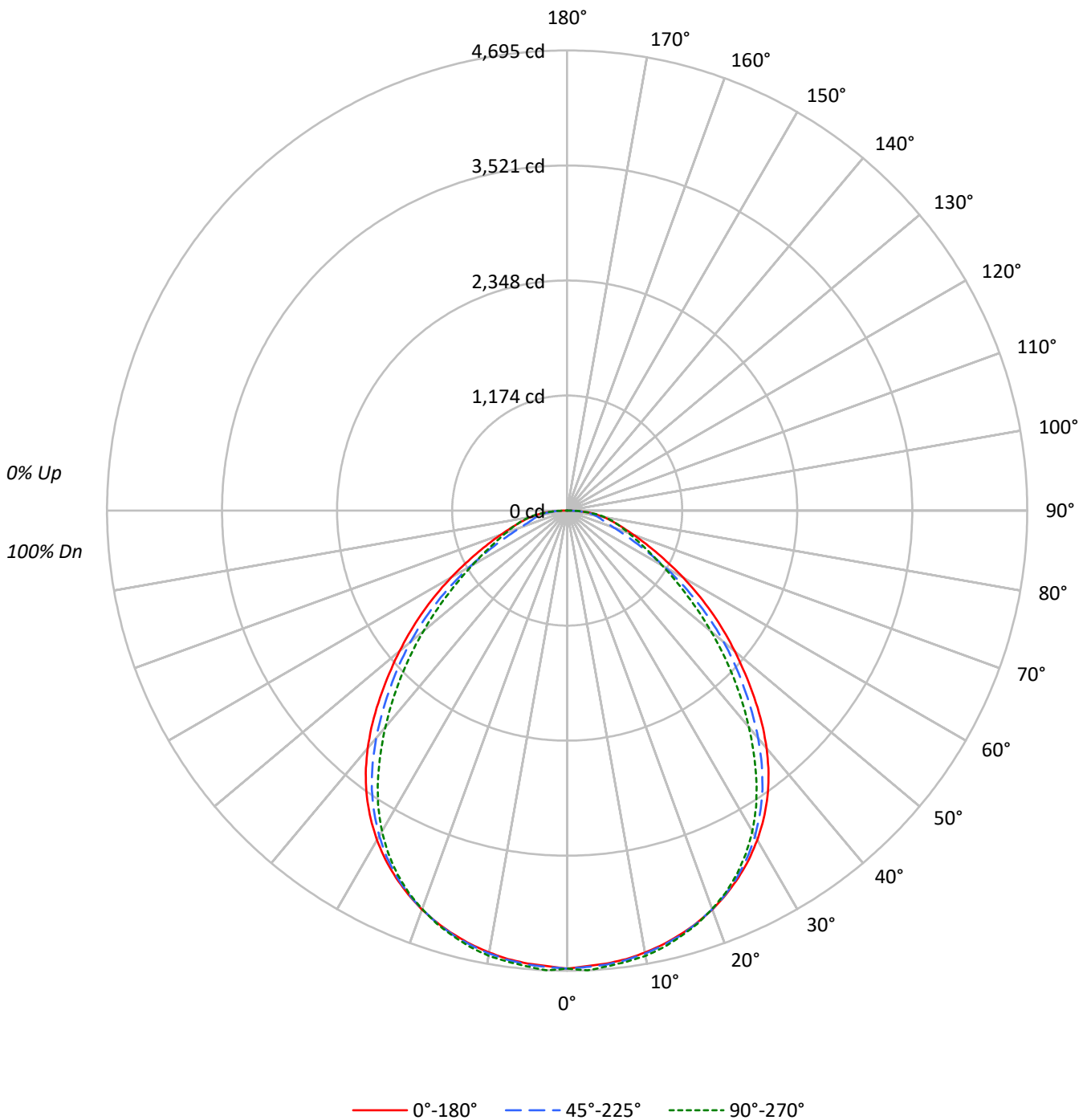
Lumens per Lamp: N/A
Luminaire Lumens: 10734.0 lumens
Efficiency: N/A
Efficacy: 140.1 lumens/watt
Spacing Criteria (0/90/45): 1.23 / 1.2 / 1.27
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

Input Watts (W): 76.6
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	0
RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10	0
RCR																		
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100
1	110	105	101	98	107	103	100	96	99	96	93	95	93	90	91	90	88	86
2	101	93	87	82	98	91	86	81	88	83	79	85	81	77	82	78	75	73
3	93	83	75	70	90	81	75	69	79	73	68	76	71	67	73	69	65	63
4	85	74	66	60	83	73	65	60	71	64	59	68	63	58	66	61	57	55
5	79	67	59	52	77	66	58	52	64	57	52	62	56	51	60	55	51	49
6	73	61	52	46	72	60	52	46	58	51	46	56	50	45	55	49	45	43
7	68	55	47	41	67	55	47	41	53	46	41	52	45	41	50	45	40	38
8	64	51	43	37	62	50	42	37	49	42	37	48	41	37	47	41	36	35
9	60	47	39	34	58	46	39	34	45	38	33	44	38	33	43	37	33	31
10	56	43	36	31	55	43	36	31	42	35	31	41	35	30	40	34	30	29

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	6287	6287	6287
5°	6265	6279	6305
10°	6256	6270	6302
15°	6235	6248	6262
20°	6202	6198	6193
25°	6135	6114	6080
30°	6029	5956	5869
35°	5854	5707	5531
40°	5563	5324	5068
45°	5139	4852	4558
50°	4671	4369	4010
55°	4201	3783	3466
60°	3676	3091	3008
65°	3169	2431	2714
70°	2826	1984	2616
75°	2707	1937	2734
80°	2927	2290	3046
85°	3287	2757	3319



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	442.9	4.1
10°-20°	1267.4	11.8
20°-30°	1895.9	17.7
30°-40°	2163.1	20.2
40°-50°	1969.0	18.3
50°-60°	1445.8	13.5
60°-70°	853.7	8.0
70°-80°	489.2	4.6
80°-90°	206.9	1.9
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°	3606.2	33.6
0°-40°	5769.3	53.7
0°-60°	9184.2	85.6
0°-90°	10734.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	10734.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	4673	4673	4673	4673	4673	
5°	4638	4667	4649	4667	4668	441
15°	4476	4501	4485	4501	4496	1263
25°	4132	4147	4118	4117	4095	1902
35°	3564	3546	3474	3415	3367	2220
45°	2701	2685	2550	2436	2396	2081
55°	1791	1708	1612	1496	1478	1601
65°	996	869	764	817	853	1002
75°	521	446	373	486	526	561
85°	213	197	179	211	215	223
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	4672.7	4672.7	4672.7	4672.7	4672.7
2.5°	4651.1	4678.0	4661.1	4679.5	4695.4
5°	4638.4	4667.4	4649.0	4667.4	4667.9
7.5°	4615.3	4642.1	4624.2	4644.2	4642.1
10°	4578.9	4605.8	4589.4	4611.0	4612.6
12.5°	4532.5	4558.3	4541.5	4566.2	4562.0
15°	4476.1	4500.9	4485.1	4500.9	4495.6
17.5°	4409.7	4432.4	4411.8	4429.2	4420.3
20°	4331.7	4350.7	4328.6	4344.9	4325.4
22.5°	4238.5	4255.3	4232.1	4241.1	4221.1
25°	4132.5	4147.3	4118.3	4116.7	4095.1
27.5°	4014.5	4022.4	3985.5	3972.9	3948.1
30°	3880.6	3882.8	3833.7	3810.0	3777.9
32.5°	3730.5	3725.2	3662.5	3627.2	3587.6
35°	3563.9	3546.5	3474.3	3414.8	3367.4
37.5°	3375.8	3348.4	3262.0	3174.0	3128.7
40°	3167.1	3135.0	3031.2	2922.1	2885.7
42.5°	2940.0	2912.6	2790.3	2676.5	2640.7
45°	2700.7	2684.9	2550.0	2435.7	2395.6
47.5°	2461.5	2449.9	2318.2	2201.7	2153.2
50°	2231.7	2206.4	2087.3	1959.8	1915.6
52.5°	2008.8	1957.2	1852.3	1721.6	1689.0
55°	1790.7	1707.9	1612.5	1495.6	1477.6
57.5°	1574.6	1467.6	1374.9	1287.4	1286.9
60°	1365.9	1243.7	1148.8	1103.0	1117.7
62.5°	1170.4	1045.0	942.2	945.4	972.3
65°	995.5	869.0	763.6	816.8	852.6
67.5°	845.3	724.6	617.6	716.7	750.9
70°	718.3	609.2	504.3	628.2	665.0
72.5°	611.3	519.6	425.3	554.4	591.8
75°	520.7	446.3	372.6	485.9	525.9
77.5°	446.9	381.0	334.1	420.5	462.2
80°	377.8	319.9	295.6	357.3	393.1
82.5°	299.3	259.3	245.0	290.4	308.8
85°	212.9	196.6	178.6	210.8	215.0
87.5°	117.0	121.2	100.1	121.2	121.7
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)