

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-N-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 (P23767)
Test Lab: INNOVATION CENTER P2
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: HBLED-LD5-12SE-N-UNV-L850-ED1-U
Description: METALUX HIGH BAY LINEAR LED
Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

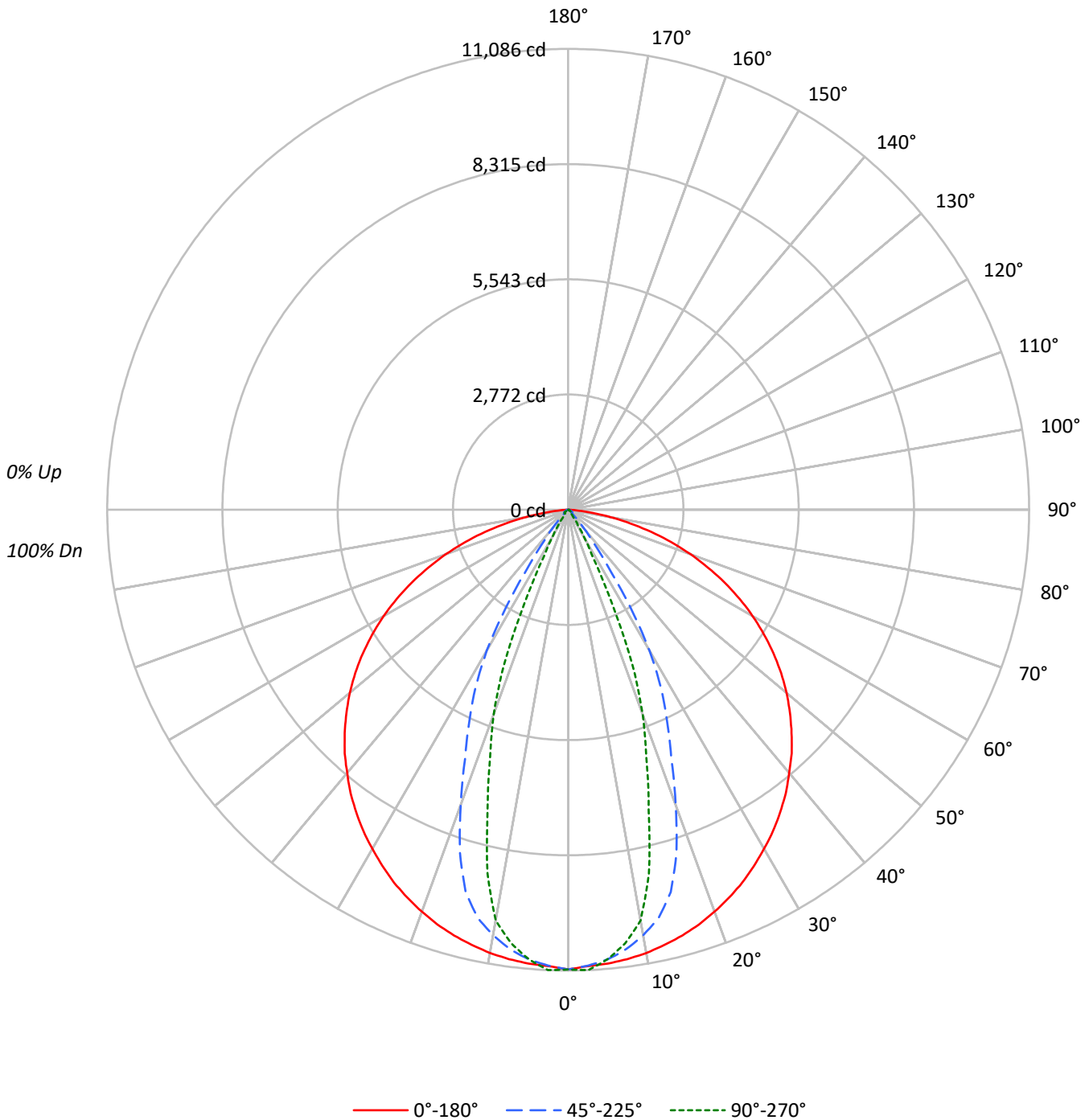
Lumens per Lamp: N/A
Luminaire Lumens: 11755.0 lumens
Efficiency: N/A
Efficacy: 153.5 lumens/watt
Spacing Criteria (0/90/45): 1.27 / 0.62 / 0.77
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

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	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					100			
1	112	108	105	102	109	106	103	101	102	100	98	98	96	95	95	93	92	90					90			
2	105	98	93	89	102	97	92	88	93	89	86	90	87	84	87	85	82	81					81			
3	98	90	84	79	96	88	83	78	86	81	77	83	79	76	81	77	74	73					73			
4	92	82	76	70	90	81	75	70	79	73	69	77	72	68	75	71	67	66					66			
5	86	76	69	64	84	75	68	63	73	67	63	71	66	62	70	65	62	60					60			
6	81	70	63	58	79	70	63	58	68	62	58	66	61	57	65	60	57	55					55			
7	76	66	58	54	75	65	58	53	63	57	53	62	57	53	61	56	52	51					51			
8	72	61	54	49	71	61	54	49	59	53	49	58	53	49	57	52	49	47					47			
9	68	57	51	46	67	57	50	46	56	50	46	55	49	46	54	49	45	44					44			
10	65	54	47	43	64	53	47	43	53	47	43	52	46	43	51	46	42	41					41			

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	14881	14881	14881
5°	14801	14670	14664
10°	14792	14200	13702
15°	14771	13266	10428
20°	14736	10815	7506
25°	14699	8362	3698
30°	14634	6077	1199
35°	14599	2696	308
40°	14523	1095	208
45°	14458	307	221
50°	14345	218	246
55°	14139	259	105
60°	13790	289	64
65°	13223	184	75
70°	12284	164	93
75°	10746	123	128
80°	8035	151	184
85°	3980	195	244



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1026.3	8.7
10°-20°	2566.4	21.8
20°-30°	2779.8	23.6
30°-40°	2058.6	17.5
40°-50°	1482.7	12.6
50°-60°	918.1	7.8
60°-70°	564.6	4.8
70°-80°	297.6	2.5
80°-90°	60.9	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°	6372.5	54.2
0°-40°	8431.1	71.7
0°-60°	10831.8	92.1
0°-90°	11755.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	11755.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	11060	11060	11060	11060	11060	
5°	10959	10999	10862	10870	10857	###
15°	10604	10358	9524	8099	7486	2993
25°	9901	9069	5633	3543	2491	4562
35°	8888	6266	1642	386	188	5561
45°	7598	3530	162	117	116	5860
55°	6027	727	110	100	45	5381
65°	4153	77	58	37	24	4098
75°	2067	18	24	31	25	2183
85°	258	7	13	19	16	390
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	11059.6	11059.6	11059.6	11059.6	<i>11059.6</i>
2.5°	<i>10988.6</i>	<i>11058.6</i>	<i>10976.0</i>	<i>11037.5</i>	<i>11086.5</i>
5°	10958.6	10999.1	10861.8	10869.7	<i>10857.1</i>
7.5°	10906.0	10896.5	10665.6	10564.6	<i>10520.4</i>
10°	10826.6	10764.0	10393.6	10182.6	<i>10029.0</i>
12.5°	10724.0	10584.0	10054.2	9383.4	<i>8966.7</i>
15°	10604.0	10357.8	9523.9	8099.1	<i>7486.2</i>
17.5°	10460.9	10112.1	8656.8	6788.0	<i>6240.9</i>
20°	10292.0	9838.0	7553.0	5775.3	<i>5242.3</i>
22.5°	10103.7	9504.4	6480.8	4799.8	<i>4039.6</i>
25°	9901.1	9069.3	5632.7	3543.4	<i>2490.7</i>
27.5°	9667.0	8510.0	4837.2	2087.1	<i>1271.1</i>
30°	9419.2	7836.6	3911.7	1122.7	<i>771.8</i>
32.5°	9169.3	7073.2	2767.9	701.3	<i>437.7</i>
35°	8888.3	6266.1	1641.5	386.2	<i>187.8</i>
37.5°	8595.3	5526.4	970.2	175.7	<i>120.5</i>
40°	8268.6	4850.3	623.5	116.8	<i>118.4</i>
42.5°	7952.9	4220.0	350.9	115.2	<i>117.3</i>
45°	7598.3	3530.3	161.5	116.8	<i>116.3</i>
47.5°	7231.6	2815.3	104.7	117.9	<i>117.9</i>
50°	6853.3	2012.9	104.2	120.5	<i>117.3</i>
52.5°	6454.0	1255.9	108.4	120.0	<i>96.3</i>
55°	6027.3	727.1	110.5	100.0	<i>44.7</i>
57.5°	5585.3	428.8	111.5	57.3	<i>25.3</i>
60°	5124.4	237.3	107.3	42.6	<i>23.7</i>
62.5°	4649.4	113.1	84.7	40.0	<i>23.1</i>
65°	4153.2	76.8	57.9	36.8	<i>23.7</i>
67.5°	3638.1	59.5	45.8	34.7	<i>24.2</i>
70°	3122.5	44.2	41.6	34.7	<i>23.7</i>
72.5°	2598.5	30.0	34.7	35.3	<i>23.7</i>
75°	2067.1	17.9	23.7	31.0	<i>24.7</i>
77.5°	1540.5	11.0	18.4	32.1	<i>30.0</i>
80°	1037.0	9.5	19.5	30.0	<i>23.7</i>
82.5°	608.7	8.4	18.9	23.1	<i>18.9</i>
85°	257.8	6.8	12.6	18.9	<i>15.8</i>
87.5°	48.4	5.8	10.0	15.3	<i>13.7</i>
90°	0.0	0.0	0.0	0.0	<i>0.0</i>

(END OF REPORT)