

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-CLWG-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 (P33344)
Test Lab: INNOVATION CENTER-P3
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: HBLED-LD5-12SE-N-CLWG-UNV-L850-ED1-U
Description: METALUX HIGH BAY LINEAR LED
NARROW DISTRIBUTION WITH CLEAR LENS, WIREGUARD & DOORFRAME
Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

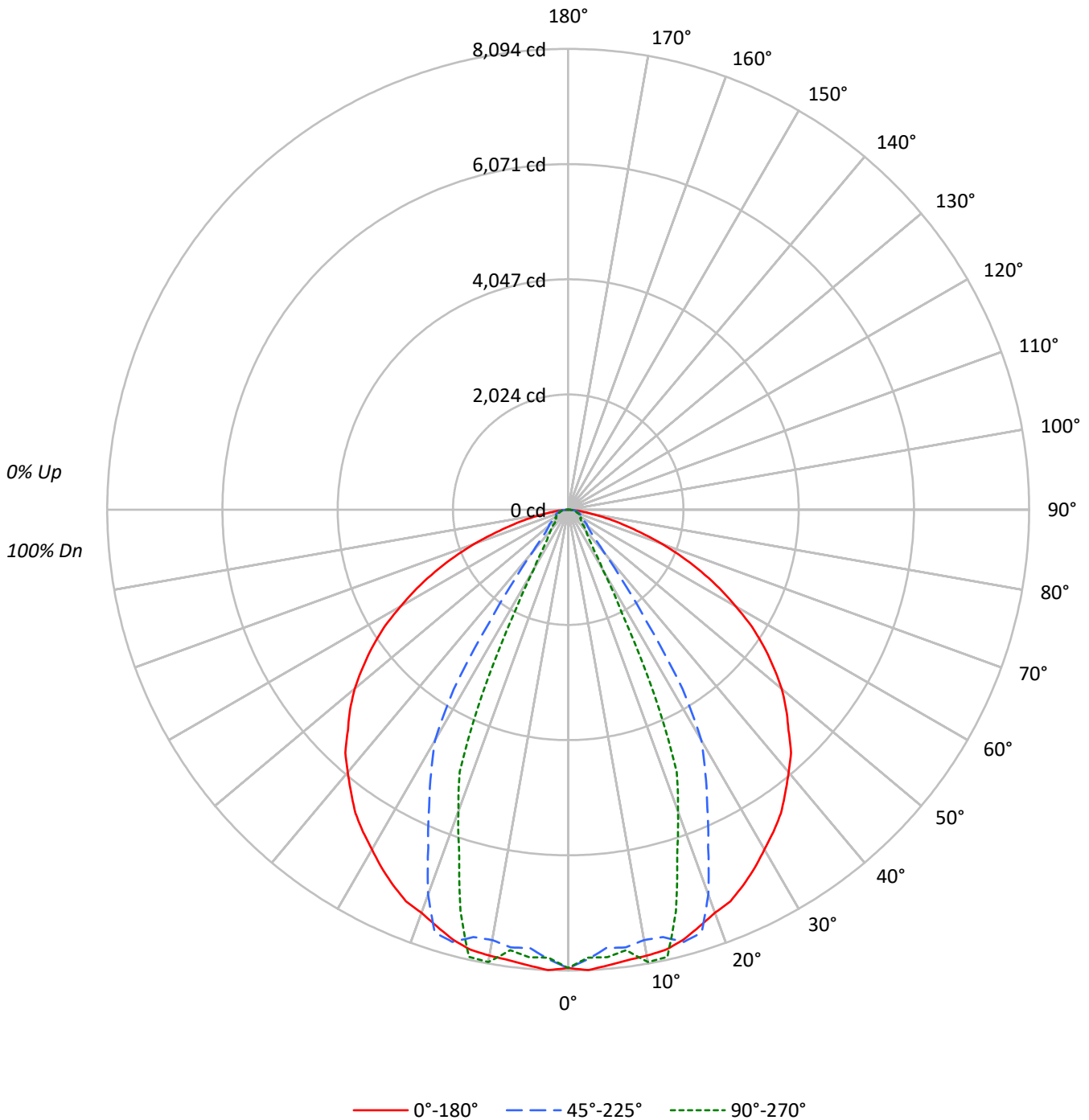
Lumens per Lamp: N/A
Luminaire Lumens: 10822.0 lumens
Efficiency: N/A
Efficacy: 141.3 lumens/watt
Spacing Criteria (0/90/45): 1.27 / 0.81 / 0.91
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

Input Watts (W): 76.6
Input Voltage (V): NR
Input Current (A_{in}): 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	111	108	104	101	109	105	103	100	101	99	97	98	96	94	94	92	91	89					89			
2	104	97	92	88	101	96	91	87	92	88	85	89	86	83	86	84	81	79					79			
3	97	89	82	77	95	87	81	76	84	79	75	82	77	74	79	76	73	71					71			
4	90	81	74	68	88	80	73	68	77	72	67	75	70	66	73	69	65	64					64			
5	85	74	67	62	83	73	66	61	71	65	61	69	64	60	68	63	59	58					58			
6	79	68	61	56	78	68	61	56	66	60	55	64	59	55	63	58	54	53					53			
7	75	63	56	51	73	63	56	51	61	55	50	60	54	50	59	54	50	48					48			
8	70	59	52	47	69	58	51	47	57	51	46	56	50	46	55	50	46	44					44			
9	66	55	48	43	65	54	48	43	53	47	43	52	47	43	52	46	43	41					41			
10	63	52	45	40	62	51	45	40	50	44	40	49	44	40	48	43	40	38					38			

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	10831	10831	10831
5°	10849	10436	10656
10°	10865	10486	11024
15°	10889	10946	10173
20°	10786	10295	8075
25°	10802	8583	5275
30°	10705	7271	1895
35°	10693	3939	1066
40°	10572	1717	835
45°	10409	1061	655
50°	10247	924	618
55°	9844	802	605
60°	9133	718	650
65°	8209	812	710
70°	6885	873	732
75°	5147	996	792
80°	3233	1156	903
85°	2152	1450	1323



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	746.1	6.9
10°-20°	2106.9	19.5
20°-30°	2579.9	23.8
30°-40°	2026.0	18.7
40°-50°	1502.4	13.9
50°-60°	914.6	8.5
60°-70°	547.9	5.1
70°-80°	300.6	2.8
80°-90°	97.5	0.9
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°	5432.9	50.2
0°-40°	7459.0	68.9
0°-60°	9876.0	91.3
0°-90°	10822.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	10822.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	8050	8050	8050	8050	8050	
5°	8033	7814	7727	7812	7889	764
15°	7817	7603	7858	7540	7303	2201
25°	7276	7299	5781	4534	3553	3349
35°	6510	5922	2398	802	649	4062
45°	5470	3928	558	423	344	4230
55°	4196	1082	342	289	258	3734
65°	2579	319	255	240	223	2548
75°	990	201	192	167	152	1072
85°	139	110	94	86	86	170
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	8049.9	8049.9	8049.9	8049.9	8049.9
2.5°	8093.9	7984.8	7901.3	7854.6	7873.6
5°	8032.6	7813.9	7726.6	7811.8	7889.4
7.5°	7979.4	7654.4	7753.2	7760.8	7801.5
10°	7952.3	7639.3	7675.1	7843.8	8068.9
12.5°	7916.5	7674.5	7687.0	7917.0	8044.0
15°	7817.2	7602.9	7857.9	7540.5	7303.4
17.5°	7672.4	7435.8	7786.3	6680.1	6357.8
20°	7532.9	7254.1	7190.0	5950.4	5639.5
22.5°	7442.9	7226.4	6422.9	5302.1	4980.9
25°	7275.8	7298.6	5781.1	4534.4	3553.0
27.5°	7091.9	7128.7	5213.6	3024.0	2035.5
30°	6890.0	6932.3	4679.8	1787.1	1219.6
32.5°	6707.2	6468.5	3737.4	1114.9	848.0
35°	6510.3	5922.2	2397.9	802.4	648.9
37.5°	6262.3	5348.2	1518.0	634.8	544.7
40°	6019.3	4832.8	977.6	542.0	475.2
42.5°	5792.0	4408.0	711.2	473.6	429.1
45°	5470.3	3927.9	557.7	422.6	344.0
47.5°	5191.9	3364.7	487.7	357.5	296.8
50°	4895.2	2572.6	441.6	317.9	295.1
52.5°	4543.1	1682.9	408.0	304.4	275.6
55°	4196.4	1082.3	341.8	289.2	257.7
57.5°	3822.1	686.3	301.6	280.5	269.1
60°	3394.0	462.8	266.9	265.8	241.4
62.5°	2998.0	380.3	257.7	255.0	228.4
65°	2578.6	319.0	255.0	239.8	223.0
67.5°	2159.8	273.4	230.6	219.2	204.5
70°	1750.2	250.1	221.9	217.0	186.1
72.5°	1329.2	206.2	196.9	183.9	154.6
75°	990.1	201.3	191.5	166.6	152.4
77.5°	670.0	185.5	174.1	149.2	137.8
80°	417.2	170.4	149.2	130.7	116.6
82.5°	247.9	142.1	122.6	108.0	98.7
85°	139.4	109.6	93.9	86.3	85.7
87.5°	29.8	39.6	31.5	29.8	21.2
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)