

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-LD5-12HE-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-LD5-12HE-W-A-UNV-L850-ED1-U
Description: METALUX HIGH BAY LINEAR LED
Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

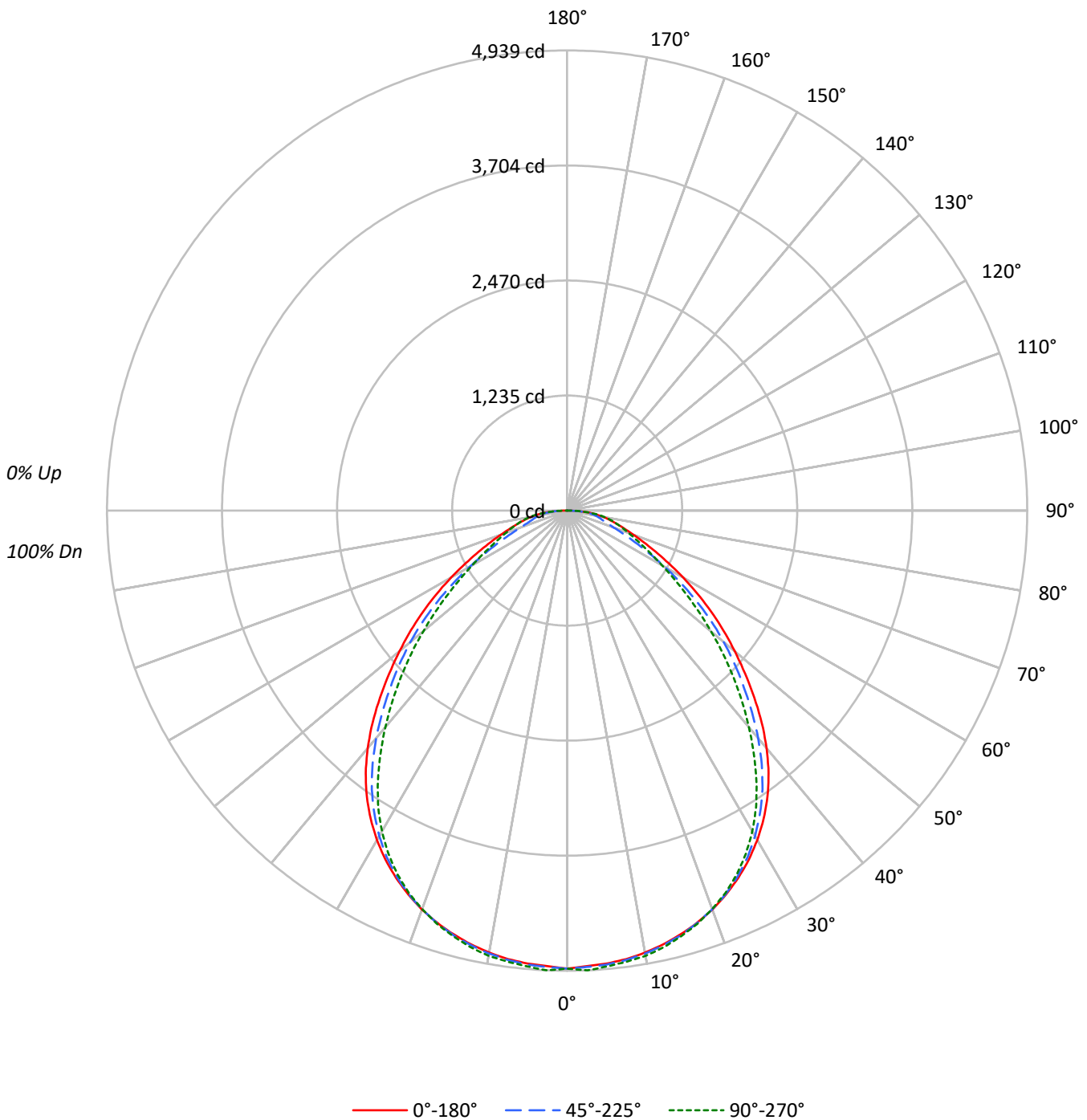
Lumens per Lamp: N/A
Luminaire Lumens: 11292.0 lumens
Efficiency: N/A
Efficacy: 155.5 lumens/watt
Spacing Criteria (0/90/45): 1.23 / 1.2 / 1.27
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

Input Watts (W): 72.6
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



TEST NUMBER: P#
CATALOG NUMBER: HBLED-LD5-12HE-W-A-UNV-L850-ED1-U

Luminous Intensity Polar Plot





TEST NUMBER: P#

CATALOG NUMBER: HBLED-LD5-12HE-W-A-UNV-L850-ED1-U

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	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°	6614	6614	6614
5°	6591	6606	6632
10°	6581	6596	6630
15°	6559	6572	6588
20°	6525	6520	6515
25°	6454	6432	6396
30°	6343	6266	6175
35°	6158	6003	5819
40°	5852	5601	5332
45°	5406	5104	4795
50°	4914	4596	4218
55°	4419	3979	3647
60°	3867	3252	3164
65°	3334	2557	2856
70°	2972	2087	2752
75°	2847	2037	2876
80°	3080	2410	3205
85°	3458	2901	3492



TEST NUMBER: P#

CATALOG NUMBER: HBLED-LD5-12HE-W-A-UNV-L850-ED1-U

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	465.9	4.1
10°-20°	1333.3	11.8
20°-30°	1994.5	17.7
30°-40°	2275.6	20.2
40°-50°	2071.4	18.3
50°-60°	1521.0	13.5
60°-70°	898.1	8.0
70°-80°	514.7	4.6
80°-90°	217.6	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°	3793.7	33.6
0°-40°	6069.2	53.7
0°-60°	9661.6	85.6
0°-90°	11292.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	11292.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	4916	4916	4916	4916	4916	
5°	4880	4910	4891	4910	4911	464
15°	4709	4735	4718	4735	4729	1329
25°	4347	4363	4332	4331	4308	2001
35°	3749	3731	3655	3592	3542	2336
45°	2841	2824	2683	2562	2520	2190
55°	1884	1797	1696	1573	1554	1685
65°	1047	914	803	859	897	1054
75°	548	470	392	511	553	590
85°	224	207	188	222	226	234
90°	0	0	0	0	0	



TEST NUMBER: P#

CATALOG NUMBER: HBLED-LD5-12HE-W-A-UNV-L850-ED1-U

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	4915.6	4915.6	4915.6	4915.6	4915.6
2.5°	4892.9	4921.1	4903.4	4922.8	4939.4
5°	4879.6	4910.1	4890.7	4910.1	4910.6
7.5°	4855.2	4883.4	4864.6	4885.7	4883.4
10°	4816.9	4845.2	4828.0	4850.7	4852.4
12.5°	4768.1	4795.3	4777.6	4803.6	4799.2
15°	4708.8	4734.9	4718.2	4734.9	4729.3
17.5°	4639.0	4662.8	4641.2	4659.5	4650.1
20°	4556.9	4576.9	4553.6	4570.8	4550.3
22.5°	4458.8	4476.5	4452.1	4461.6	4440.5
25°	4347.4	4362.9	4332.4	4330.7	4308.0
27.5°	4223.2	4231.5	4192.7	4179.4	4153.3
30°	4082.4	4084.6	4033.0	4008.1	3974.3
32.5°	3924.4	3918.8	3852.9	3815.7	3774.2
35°	3749.2	3730.9	3655.0	3592.3	3542.4
37.5°	3551.3	3522.5	3431.5	3339.0	3291.3
40°	3331.8	3297.9	3188.7	3074.0	3035.7
42.5°	3092.8	3064.0	2935.4	2815.6	2777.9
45°	2841.1	2824.5	2682.6	2562.3	2520.2
47.5°	2589.5	2577.3	2438.7	2316.2	2265.2
50°	2347.8	2321.1	2195.9	2061.7	2015.1
52.5°	2113.3	2058.9	1948.6	1811.1	1776.8
55°	1883.7	1796.7	1696.4	1573.3	1554.5
57.5°	1656.5	1543.9	1446.4	1354.3	1353.8
60°	1436.9	1308.3	1208.5	1160.3	1175.8
62.5°	1231.3	1099.3	991.2	994.5	1022.8
65°	1047.2	914.2	803.3	859.3	897.0
67.5°	889.2	762.3	649.7	753.9	790.0
70°	755.6	640.9	530.5	660.8	699.6
72.5°	643.1	546.6	447.4	583.2	622.6
75°	547.7	469.6	391.9	511.1	553.3
77.5°	470.1	400.8	351.5	442.4	486.2
80°	397.5	336.5	311.0	375.9	413.6
82.5°	314.9	272.7	257.8	305.5	324.9
85°	224.0	206.8	187.9	221.7	226.2
87.5°	123.1	127.5	105.3	127.5	128.1
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)