

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-LD5-15SE-N-CL-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 (P23768)
Test Lab: INNOVATION CENTER P2
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: HBLED-LD5-15SE-N-CL-UNV-L850-ED1-U
Description: METALUX HIGH BAY LINEAR LED
Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

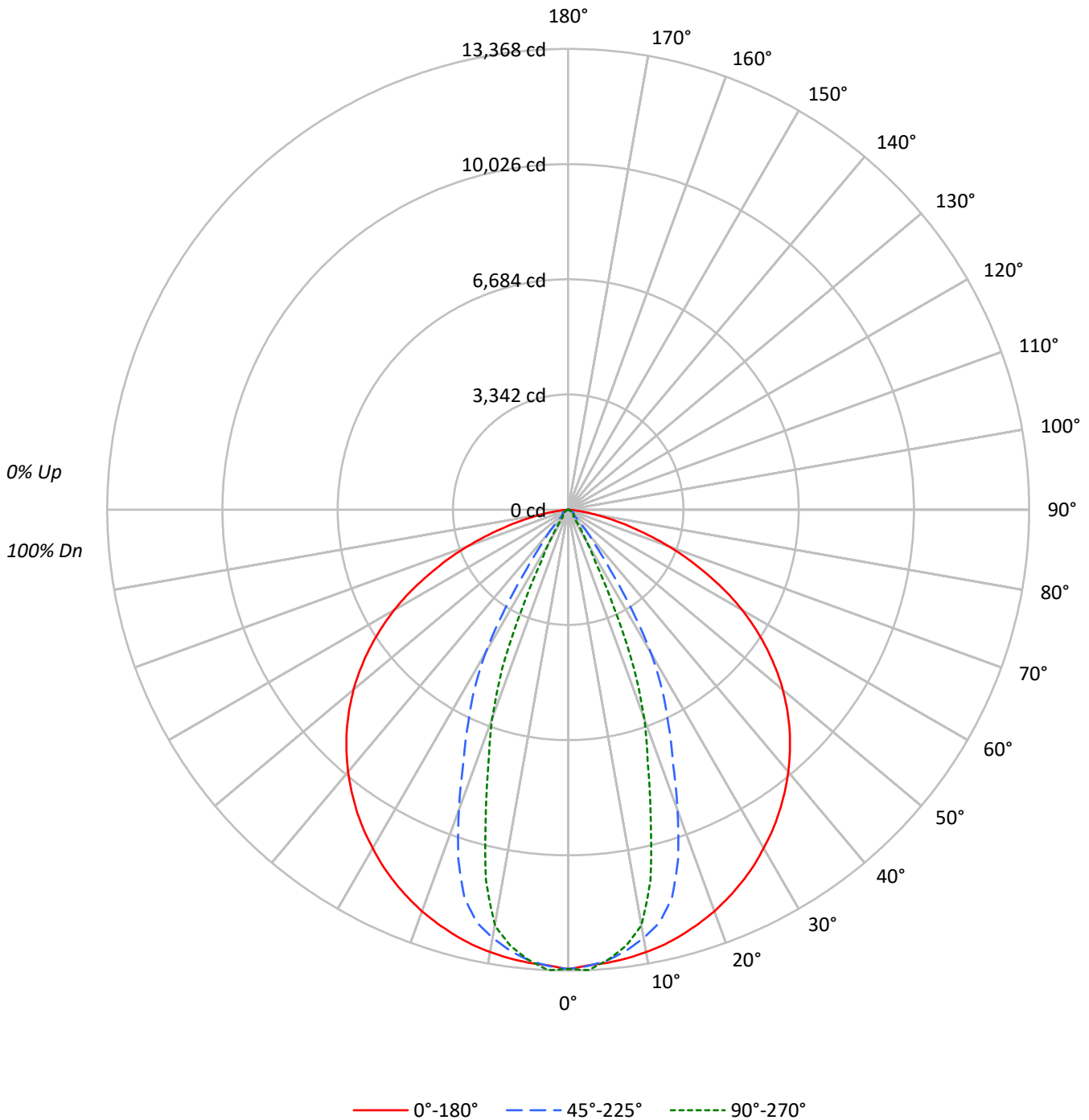
Lumens per Lamp: N/A
Luminaire Lumens: 14250.0 lumens
Efficiency: N/A
Efficacy: 149.7 lumens/watt
Spacing Criteria (0/90/45): 1.27 / 0.63 / 0.78
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

Input Watts (W): 95.2
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-LD5-15SE-N-CL-UNV-L850-ED1-U

Luminous Intensity Polar Plot





TEST NUMBER: P#

CATALOG NUMBER: HBLED-LD5-15SE-N-CL-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	112	109	105	103	109	106	104	101	102	100	98	98	97	95	95	94	92					90				
2	105	99	94	90	102	97	92	89	94	90	87	91	87	85	88	85	83					81				
3	98	90	84	79	96	89	83	79	86	81	77	83	79	76	81	78	75					73				
4	92	83	76	71	90	82	75	71	79	74	70	77	73	69	75	71	68					66				
5	86	76	69	64	85	75	69	64	73	68	63	72	67	63	70	66	62					60				
6	81	71	64	59	80	70	63	58	68	62	58	67	62	58	65	61	57					55				
7	77	66	59	54	75	65	58	54	64	58	53	62	57	53	61	56	53					51				
8	72	61	55	50	71	61	54	50	60	54	49	59	53	49	58	53	49					47				
9	69	58	51	46	67	57	51	46	56	50	46	55	50	46	54	49	46					44				
10	65	54	48	43	64	54	47	43	53	47	43	52	47	43	51	46	43					41				

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	17927	17927	17927
5°	17817	17724	17711
10°	17805	17234	16726
15°	17785	16206	12860
20°	17750	13262	9225
25°	17695	10218	4688
30°	17611	7457	1705
35°	17548	3425	594
40°	17440	1554	410
45°	17285	580	415
50°	17009	421	437
55°	16506	443	333
60°	15685	473	294
65°	14225	360	239
70°	12196	260	220
75°	9322	230	209
80°	5832	217	227
85°	1842	253	306



TEST NUMBER: P#

CATALOG NUMBER: HBLED-LD5-15SE-N-CL-UNV-L850-ED1-U

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1240.5	8.7
10°-20°	3124.8	21.9
20°-30°	3403.1	23.9
30°-40°	2545.7	17.9
40°-50°	1830.4	12.8
50°-60°	1124.1	7.9
60°-70°	646.8	4.5
70°-80°	288.7	2.0
80°-90°	45.8	0.3
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°	7768.4	54.5
0°-40°	10314.1	72.4
0°-60°	13268.6	93.1
0°-90°	14250.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	14250.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	13324	13324	13324	13324	13324	
5°	13192	13254	13123	13135	13113	###
15°	12768	12523	11635	9992	9232	3604
25°	11919	11064	6883	4416	3158	5494
35°	10683	7662	2085	613	361	6683
45°	9084	4305	305	226	218	6998
55°	7036	894	189	183	142	6273
65°	4468	98	113	94	75	4423
75°	1793	59	44	46	40	1946
85°	119	12	16	21	20	238
90°	0	0	0	0	0	



TEST NUMBER: P#

CATALOG NUMBER: HBLED-LD5-15SE-N-CL-UNV-L850-ED1-U

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	13324.1	13324.1	13324.1	13324.1	13324.1
2.5°	13231.4	13318.0	13245.0	13310.5	13368.4
5°	13191.9	13253.9	13123.0	13135.3	13113.4
7.5°	13123.7	13138.7	12902.1	12810.7	12766.4
10°	13032.3	12992.1	12614.4	12396.9	12242.1
12.5°	12917.1	12784.1	12256.4	11479.8	11016.8
15°	12767.8	12523.0	11634.6	9992.1	9232.5
17.5°	12589.8	12250.3	10605.0	8327.8	7670.5
20°	12396.9	11948.9	9262.5	7080.7	6442.5
22.5°	12169.1	11563.7	7938.4	5888.9	5012.7
25°	11918.9	11063.9	6883.0	4416.1	3157.5
27.5°	11648.9	10404.6	5905.9	2708.2	1707.3
30°	11335.3	9602.1	4800.0	1519.8	1097.7
32.5°	11029.1	8666.6	3428.9	1012.5	701.6
35°	10683.4	7662.3	2085.0	613.0	361.4
37.5°	10317.3	6749.3	1305.0	333.4	249.5
40°	9929.3	5883.4	885.0	236.6	233.2
42.5°	9514.8	5100.0	554.3	225.0	232.5
45°	9083.9	4305.0	304.8	225.7	218.2
47.5°	8616.2	3441.8	212.7	213.4	212.7
50°	8125.9	2468.9	201.1	210.7	208.6
52.5°	7597.5	1532.7	201.8	205.9	184.8
55°	7036.4	894.5	188.9	182.7	141.8
57.5°	6446.6	557.7	184.8	150.7	127.5
60°	5828.9	294.5	175.9	135.7	109.1
62.5°	5170.9	145.2	141.1	115.9	89.3
65°	4468.0	98.2	113.2	94.1	75.0
67.5°	3788.9	88.6	85.2	77.0	65.5
70°	3100.2	81.1	66.1	67.5	55.9
72.5°	2424.6	73.6	53.2	58.0	47.0
75°	1793.2	59.3	44.3	45.7	40.2
77.5°	1247.7	46.4	34.8	38.9	37.5
80°	752.7	29.3	28.0	32.0	29.3
82.5°	364.8	19.1	21.8	25.2	23.2
85°	119.3	11.6	16.4	21.1	19.8
87.5°	15.0	6.8	13.6	18.4	17.0
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)