

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-CLWG-UNV-L750-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-LD5-15SE-N-CLWG-UNV-L750-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

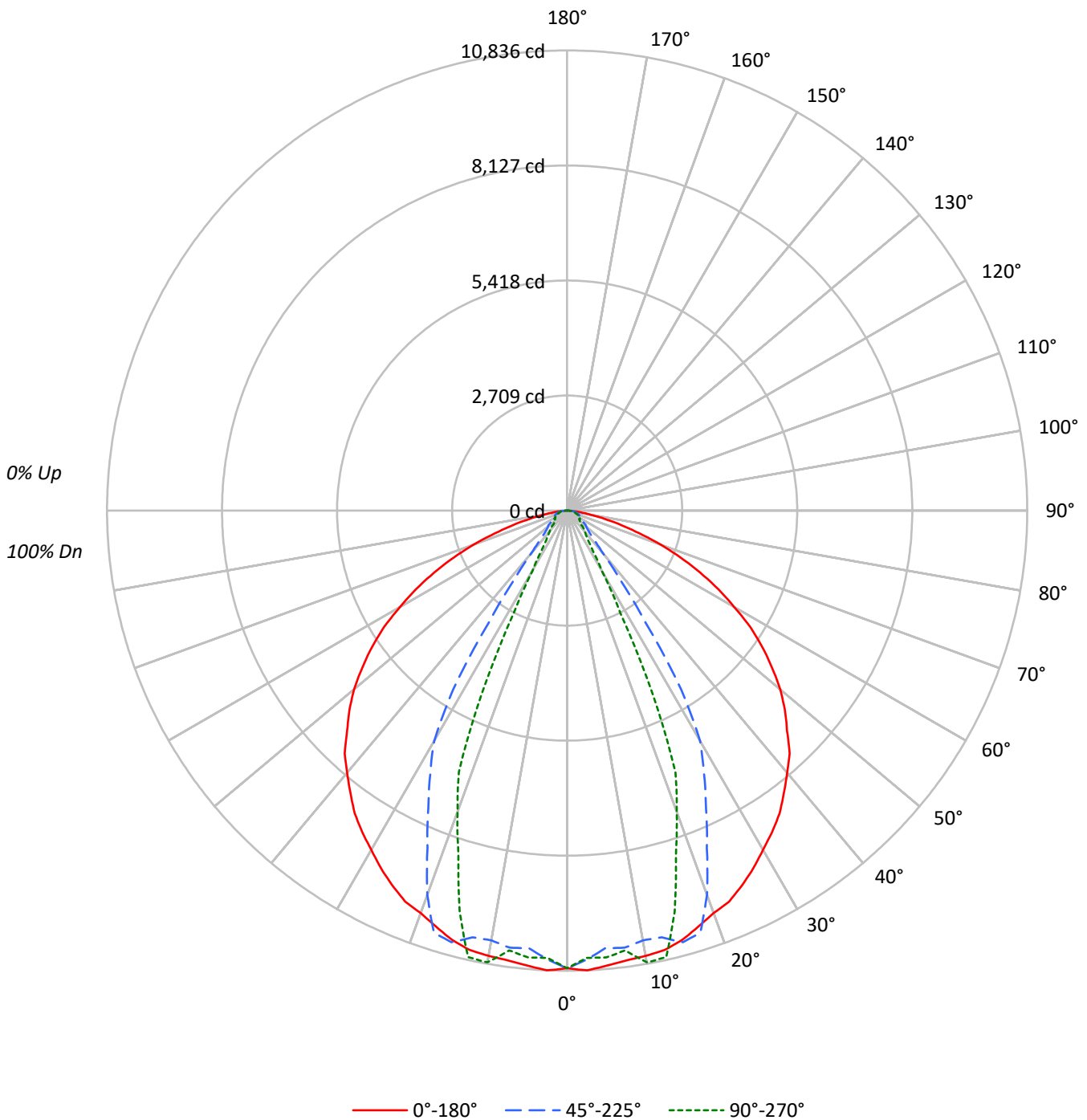
Lumens per Lamp: N/A
Luminaire Lumens: 14489.0 lumens
Efficiency: N/A
Efficacy: 152.2 lumens/watt
Spacing Criteria (0/90/45): 1.27 / 0.81 / 0.91
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

Input Watts (W): 95.2
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°	14501	14501	14501
5°	14525	13972	14266
10°	14546	14039	14760
15°	14579	14655	13621
20°	14441	13783	10811
25°	14461	11491	7062
30°	14332	9734	2537
35°	14317	5273	1427
40°	14155	2299	1118
45°	13936	1421	876
50°	13719	1238	827
55°	13180	1073	809
60°	12228	962	870
65°	10991	1087	950
70°	9218	1169	980
75°	6891	1333	1061
80°	4328	1547	1210
85°	2882	1941	1772



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	998.9	6.9
10°-20°	2820.8	19.5
20°-30°	3454.1	23.8
30°-40°	2712.5	18.7
40°-50°	2011.5	13.9
50°-60°	1224.6	8.5
60°-70°	733.5	5.1
70°-80°	402.5	2.8
80°-90°	130.5	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°	7273.8	50.2
0°-40°	9986.4	68.9
0°-60°	13222.5	91.3
0°-90°	14489.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	14489.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	10778	10778	10778	10778	10778	
5°	10754	10462	10345	10459	10563	###
15°	10466	10179	10520	10096	9778	2947
25°	9741	9772	7740	6071	4757	4484
35°	8716	7929	3210	1074	869	5439
45°	7324	5259	747	566	460	5663
55°	5618	1449	458	387	345	5000
65°	3452	427	341	321	298	3411
75°	1326	270	256	223	204	1435
85°	187	147	126	116	115	228
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	10777.6	10777.6	10777.6	10777.6	10777.6
2.5°	10836.5	10690.5	10578.6	10516.2	10541.6
5°	10754.4	10461.7	10344.7	10458.8	10562.6
7.5°	10683.2	10248.1	10380.3	10390.5	10445.0
10°	10646.9	10227.8	10275.7	10501.6	10803.1
12.5°	10599.0	10275.0	10291.7	10599.7	10769.7
15°	10466.0	10179.1	10520.5	10095.6	9778.2
17.5°	10272.1	9955.4	10424.6	8943.6	8512.1
20°	10085.4	9712.1	9626.4	7966.7	7550.5
22.5°	9964.9	9675.0	8599.3	7098.7	6668.7
25°	9741.1	9771.6	7740.0	6070.9	4756.9
27.5°	9494.9	9544.3	6980.3	4048.7	2725.3
30°	9224.7	9281.4	6265.5	2392.6	1632.8
32.5°	8979.9	8660.3	5003.9	1492.7	1135.3
35°	8716.3	7928.9	3210.5	1074.3	868.7
37.5°	8384.3	7160.4	2032.3	849.8	729.3
40°	8058.9	6470.4	1308.9	725.6	636.3
42.5°	7754.6	5901.6	952.3	634.1	574.5
45°	7323.8	5258.8	746.7	565.8	460.5
47.5°	6951.2	4504.8	653.0	478.7	397.3
50°	6553.9	3444.4	591.3	425.6	395.1
52.5°	6082.5	2253.2	546.2	407.5	369.0
55°	5618.4	1449.1	457.6	387.1	345.0
57.5°	5117.2	918.8	403.9	375.5	360.3
60°	4544.1	619.6	357.4	355.9	323.2
62.5°	4013.8	509.2	345.0	341.4	305.8
65°	3452.4	427.1	341.4	321.0	298.5
67.5°	2891.6	366.1	308.7	293.4	273.8
70°	2343.2	334.8	297.1	290.5	249.1
72.5°	1779.6	276.0	263.7	246.2	207.0
75°	1325.6	269.5	256.4	223.0	204.1
77.5°	897.0	248.4	233.2	199.7	184.5
80°	558.6	228.1	199.7	175.1	156.2
82.5°	331.9	190.3	164.2	144.5	132.2
85°	186.7	146.7	125.7	115.5	114.8
87.5°	39.9	53.0	42.1	39.9	28.3
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)