

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-W-CLI-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 (P23766)
Test Lab: INNOVATION CENTER P2
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: HBLED-LD5-15SE-W-CLI-UNV-L850-ED1-U
Description: METALUX HIGH BAY LINEAR LED
Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

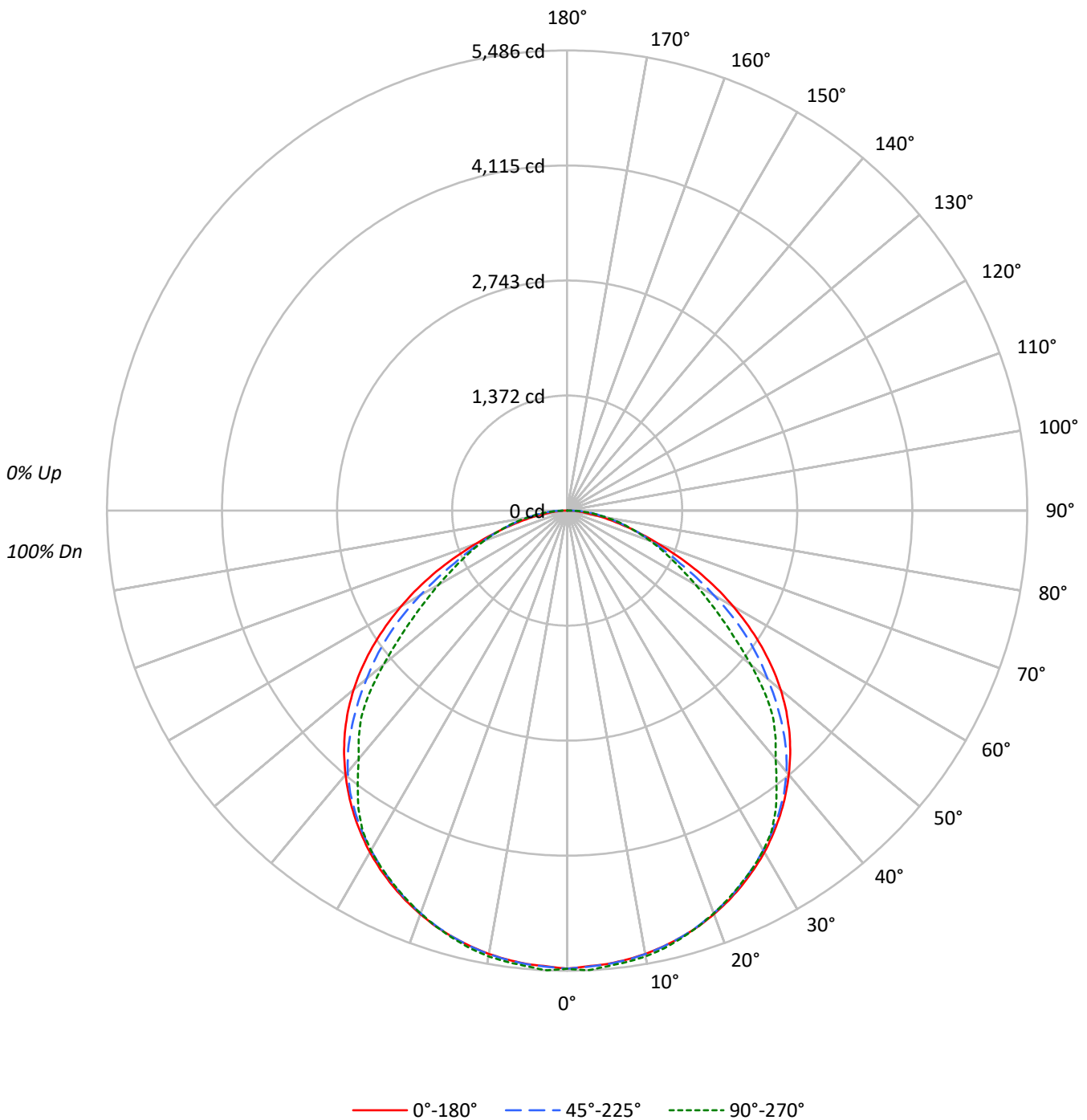
Lumens per Lamp: N/A
Luminaire Lumens: 14673.0 lumens
Efficiency: N/A
Efficacy: 154.1 lumens/watt
Spacing Criteria (0/90/45): 1.28 / 1.27 / 1.37
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

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



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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	0
RCR																		
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100
1	109	105	101	97	107	102	99	95	98	95	92	94	92	90	91	89	87	85
2	100	92	85	80	97	90	84	79	86	81	77	83	79	75	80	77	74	71
3	91	81	73	67	89	79	72	66	77	70	65	74	68	64	71	67	63	61
4	84	72	64	57	81	71	63	57	68	61	56	66	60	55	64	59	54	52
5	77	65	56	49	75	63	55	49	61	54	48	59	53	48	58	52	47	45
6	71	58	49	43	69	57	49	43	55	48	43	54	47	42	52	46	42	40
7	66	53	44	38	64	52	44	38	50	43	38	49	42	37	48	42	37	35
8	62	48	40	34	60	48	40	34	46	39	34	45	38	34	44	38	33	31
9	58	44	36	31	56	44	36	31	43	35	30	41	35	30	40	35	30	28
10	54	41	33	28	53	40	33	28	39	32	28	38	32	28	38	32	27	26

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	7348	7348	7348
5°	7329	7334	7367
10°	7333	7336	7375
15°	7333	7333	7350
20°	7332	7315	7317
25°	7320	7293	7284
30°	7308	7265	7269
35°	7274	7229	7127
40°	7223	7149	6788
45°	7131	6903	6601
50°	6959	6535	5978
55°	6643	6112	5286
60°	6164	5453	4767
65°	5479	4721	4383
70°	4547	4220	4132
75°	3677	3861	3909
80°	2921	3693	3678
85°	2288	3968	3785



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	517.9	3.5
10°-20°	1489.8	10.2
20°-30°	2271.6	15.5
30°-40°	2748.3	18.7
40°-50°	2783.8	19.0
50°-60°	2300.9	15.7
60°-70°	1519.7	10.4
70°-80°	792.4	5.4
80°-90°	248.4	1.7
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°	4279.3	29.2
0°-40°	7027.7	47.9
0°-60°	12112.4	82.5
0°-90°	14673.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	14673.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	5461	5461	5461	5461	5461	
5°	5426	5459	5430	5454	5454	516
15°	5265	5292	5264	5280	5276	1487
25°	4931	4951	4913	4925	4907	2274
35°	4429	4435	4401	4395	4339	2770
45°	3748	3738	3628	3515	3469	2886
55°	2832	2790	2606	2352	2253	2524
65°	1721	1671	1483	1387	1377	1700
75°	707	720	743	753	752	771
85°	148	191	257	255	245	180
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	5461.4	5461.4	5461.4	5461.4	5461.4
2.5°	5438.4	5470.6	5443.7	5467.3	5486.3
5°	5426.0	5458.8	5429.9	5453.5	5454.2
7.5°	5401.7	5434.5	5405.0	5428.6	5427.9
10°	5367.0	5397.8	5369.6	5397.8	5397.8
12.5°	5319.8	5349.9	5322.4	5348.6	5344.7
15°	5264.7	5291.6	5264.0	5280.4	5276.5
17.5°	5199.8	5224.0	5193.2	5207.0	5199.1
20°	5120.4	5142.7	5108.6	5126.3	5110.0
22.5°	5031.3	5052.3	5017.5	5030.6	5012.3
25°	4931.0	4950.6	4912.6	4925.1	4906.7
27.5°	4822.8	4840.5	4797.9	4813.0	4798.5
30°	4704.1	4712.6	4675.9	4695.6	4678.6
32.5°	4571.7	4576.9	4544.8	4562.5	4533.7
35°	4428.8	4434.7	4401.2	4395.3	4338.9
37.5°	4276.0	4278.6	4247.2	4194.0	4100.9
40°	4112.1	4110.8	4070.1	3947.5	3864.9
42.5°	3937.0	3936.4	3864.9	3725.3	3678.1
45°	3747.6	3737.7	3627.6	3514.8	3468.9
47.5°	3544.3	3533.8	3379.8	3289.9	3185.7
50°	3324.7	3306.3	3122.1	2999.5	2855.9
52.5°	3088.0	3059.8	2872.3	2674.3	2538.6
55°	2831.7	2789.7	2605.5	2352.4	2253.4
57.5°	2564.8	2502.5	2323.5	2077.0	1996.4
60°	2290.8	2221.3	2026.5	1824.0	1771.5
62.5°	2008.8	1940.0	1741.3	1588.6	1559.7
65°	1721.0	1671.2	1483.0	1386.7	1376.8
67.5°	1426.0	1408.3	1264.7	1215.5	1211.6
70°	1155.9	1152.6	1072.6	1047.7	1050.3
72.5°	923.8	919.8	908.0	895.6	896.2
75°	707.4	719.9	742.8	752.7	752.0
77.5°	527.8	553.3	601.9	621.5	618.3
80°	377.0	415.0	476.6	495.0	474.7
82.5°	251.1	291.1	363.9	366.5	350.1
85°	148.2	190.8	257.0	255.0	245.2
87.5°	73.4	114.7	154.1	147.5	141.0
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)