

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-AI-UNV-L740-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 (P23765)  
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-AI-UNV-L740-ED1-U  
Description: METALUX HIGH BAY LINEAR LED  
Light Source: -  
Ballast/Driver: -

Luminaire Equipment: Sample No.    Condition    Description

**Summary**

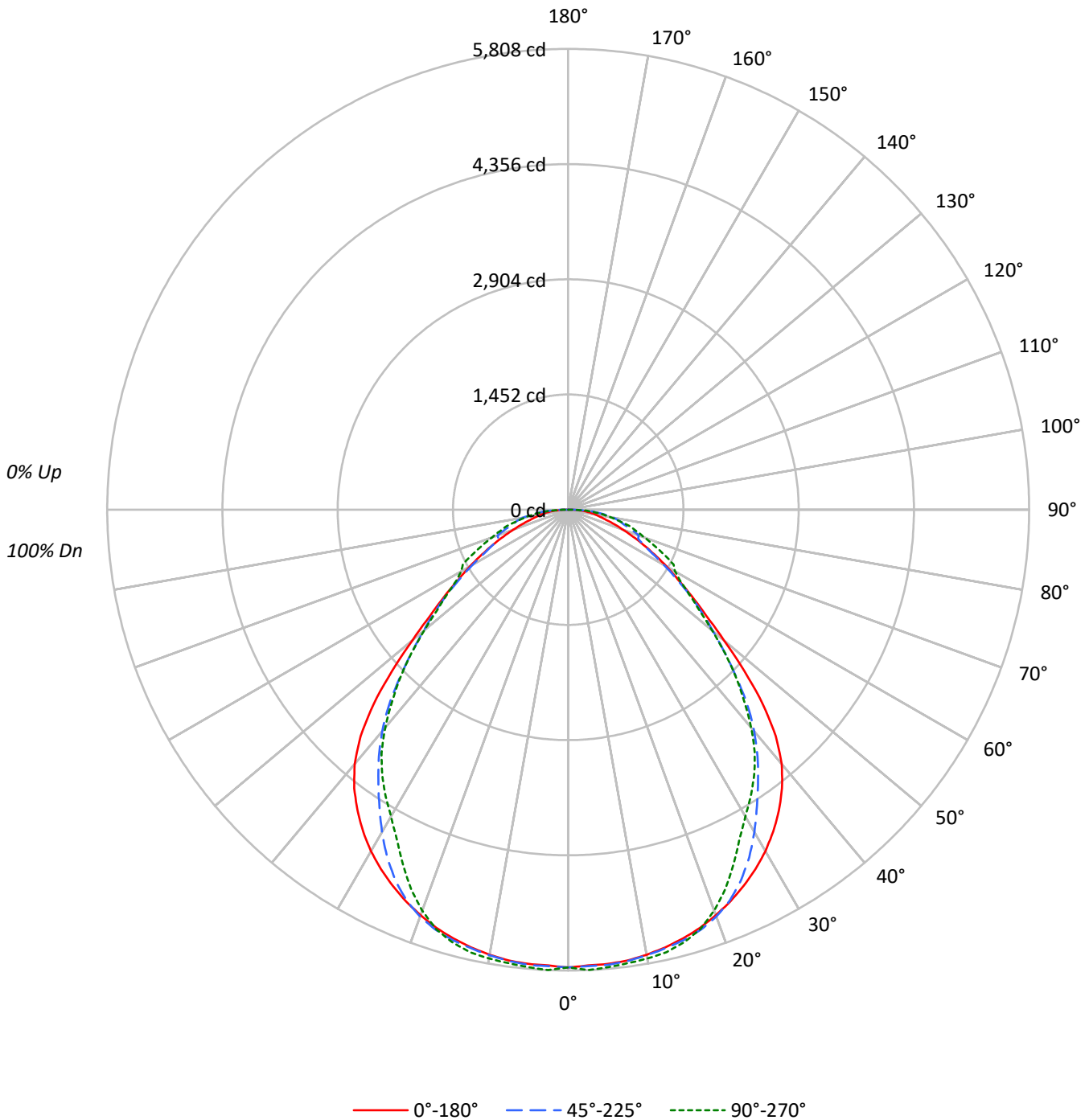
Lumens per Lamp: N/A  
Luminaire Lumens: 13353.0 lumens  
Efficiency: N/A  
Efficacy: 140.3 lumens/watt  
Spacing Criteria (0/90/45): 1.27 / 1.16 / 1.26  
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')  
CIE Type: Direct

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	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	109	105	101	97	107	103	99	96	98	95	93	95	92	90	91	89	87	85					85			
2	100	93	86	81	98	91	85	80	87	82	78	84	80	76	81	78	75	73					73			
3	92	82	75	69	90	81	74	68	78	72	67	75	70	66	73	68	65	63					63			
4	85	74	66	59	83	73	65	59	70	64	58	68	62	57	66	61	57	55					55			
5	79	67	58	52	77	66	58	52	64	57	51	62	55	51	60	54	50	48					48			
6	73	61	52	46	71	60	52	46	58	51	45	56	50	45	55	49	45	43					43			
7	68	55	47	41	66	54	47	41	53	46	41	52	45	40	50	44	40	38					38			
8	64	51	43	37	62	50	42	37	49	42	37	48	41	36	46	41	36	34					34			
9	60	47	39	34	58	46	39	33	45	38	33	44	38	33	43	37	33	31					31			
10	56	43	36	31	55	43	35	31	42	35	30	41	35	30	40	34	30	29					29			

**AVERAGE LUMINANCE (cd/sqm):**

	0°	45°	90°
0°	7762	7762	7762
5°	7762	7778	7816
10°	7781	7791	7848
15°	7793	7822	7860
20°	7785	7814	7698
25°	7765	7649	7316
30°	7720	7288	6933
35°	7603	6850	6707
40°	7349	6405	6299
45°	6605	5719	5698
50°	5358	4981	4947
55°	4449	4366	4364
60°	3852	3739	4180
65°	3338	3317	4214
70°	2878	3721	4017
75°	2581	3814	4187
80°	2682	4489	4201
85°	3046	5173	4801



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	549.3	4.1
10°-20°	1586.3	11.9
20°-30°	2356.1	17.6
30°-40°	2674.8	20.0
40°-50°	2391.2	17.9
50°-60°	1653.3	12.4
60°-70°	1090.9	8.2
70°-80°	736.0	5.5
80°-90°	315.2	2.4
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°	4491.7	33.6
0°-40°	7166.5	53.7
0°-60°	11210.9	84.0
0°-90°	13353.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	13353.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	5769	5769	5769	5769	5769	
5°	5747	5782	5759	5783	5787	547
15°	5594	5621	5615	5647	5643	1579
25°	5231	5280	5152	4999	4928	2410
35°	4629	4532	4170	4110	4084	2887
45°	3471	3177	3006	3028	2994	2640
55°	1896	1731	1861	1835	1860	1723
65°	1048	931	1042	1218	1324	1046
75°	496	624	734	784	806	542
85°	197	274	335	337	311	206
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	5768.9	5768.9	5768.9	5768.9	5768.9
2.5°	5749.3	5785.2	5758.5	5783.3	5807.5
5°	5746.7	5782.0	5759.1	5782.6	5787.2
7.5°	5730.4	5763.0	5736.2	5759.1	5764.3
10°	5695.1	5733.6	5702.3	5737.6	5744.1
12.5°	5649.4	5688.6	5661.1	5709.5	5712.1
15°	5594.5	5621.3	5615.4	5646.7	5642.8
17.5°	5525.2	5555.9	5551.4	5559.2	5540.9
20°	5437.1	5471.7	5457.3	5421.4	5376.3
22.5°	5342.3	5384.1	5327.3	5236.5	5173.1
25°	5230.6	5280.3	5152.2	4998.7	4928.2
27.5°	5107.2	5151.6	4938.6	4750.5	4677.3
30°	4968.7	4987.6	4691.0	4512.0	4462.4
32.5°	4808.6	4781.2	4426.5	4308.2	4279.5
35°	4629.0	4531.6	4170.4	4109.6	4083.5
37.5°	4426.5	4248.1	3917.6	3889.5	3862.1
40°	4184.1	3920.8	3646.5	3628.2	3586.4
42.5°	3871.2	3564.8	3345.3	3323.8	3286.5
45°	3471.4	3177.4	3005.6	3028.5	2994.5
47.5°	3011.5	2788.8	2679.7	2742.4	2679.7
50°	2559.5	2409.9	2379.8	2436.6	2363.5
52.5°	2189.1	2054.5	2116.6	2126.4	2082.6
55°	1896.4	1731.1	1861.1	1835.0	1860.5
57.5°	1641.6	1456.8	1616.8	1586.8	1674.3
60°	1431.3	1223.5	1389.5	1382.9	1553.4
62.5°	1224.9	1058.9	1192.2	1288.2	1497.9
65°	1048.5	930.9	1041.9	1218.3	1323.5
67.5°	879.3	834.9	953.1	1051.1	1166.1
70°	731.6	754.5	945.9	927.6	1021.0
72.5°	607.5	685.3	834.9	838.1	904.1
75°	496.5	624.5	733.6	783.9	805.5
77.5°	412.9	566.4	662.4	680.0	659.1
80°	346.2	499.1	579.4	571.6	542.2
82.5°	279.6	378.2	456.6	463.8	429.2
85°	197.3	274.4	335.1	337.1	311.0
87.5°	105.8	169.2	203.2	209.0	193.4
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)