

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

Luminaire Equipment: Sample No.    Condition    Description

**Summary**

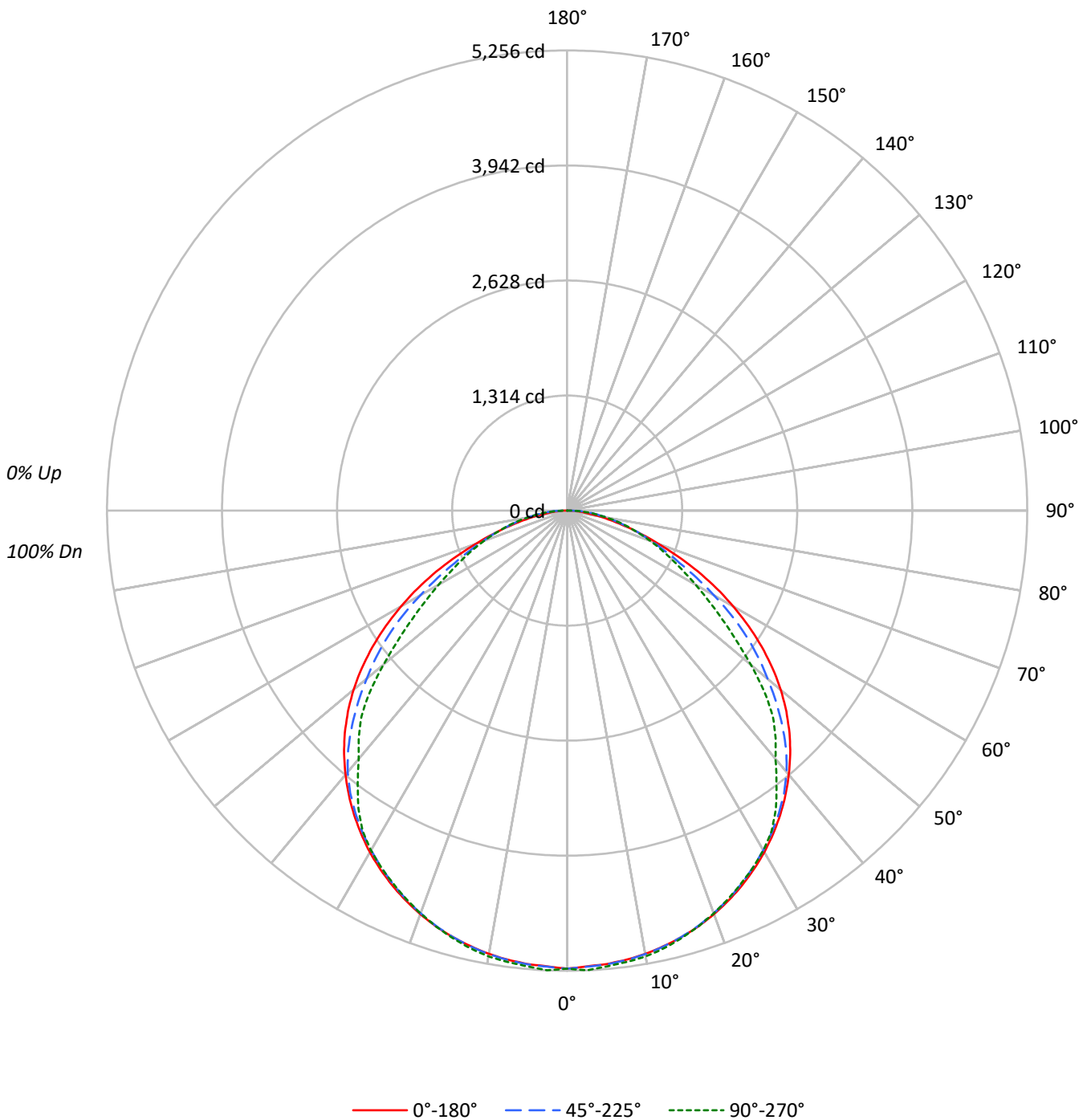
Lumens per Lamp: N/A  
Luminaire Lumens: 14057.0 lumens  
Efficiency: N/A  
Efficacy: 147.7 lumens/watt  
Spacing Criteria (0/90/45): 1.28 / 1.27 / 1.37  
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')  
CIE Type: Direct

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°	7040	7040	7040
5°	7021	7026	7057
10°	7025	7028	7065
15°	7026	7025	7041
20°	7024	7008	7009
25°	7013	6987	6979
30°	7002	6960	6964
35°	6969	6926	6828
40°	6919	6849	6503
45°	6831	6613	6324
50°	6667	6261	5727
55°	6364	5855	5064
60°	5906	5225	4567
65°	5249	4523	4199
70°	4356	4043	3958
75°	3523	3699	3745
80°	2799	3538	3523
85°	2192	3801	3626



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	496.2	3.5
10°-20°	1427.2	10.2
20°-30°	2176.3	15.5
30°-40°	2633.0	18.7
40°-50°	2667.0	19.0
50°-60°	2204.3	15.7
60°-70°	1455.9	10.4
70°-80°	759.2	5.4
80°-90°	238.0	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°	4099.7	29.2
0°-40°	6732.7	47.9
0°-60°	11603.9	82.5
0°-90°	14057.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	14057.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	5232	5232	5232	5232	5232	
5°	5198	5230	5202	5225	5225	494
15°	5044	5069	5043	5059	5055	1424
25°	4724	4743	4706	4718	4701	2178
35°	4243	4248	4216	4211	4157	2654
45°	3590	3581	3475	3367	3323	2765
55°	2713	2673	2496	2254	2159	2418
65°	1649	1601	1421	1328	1319	1628
75°	678	690	712	721	720	738
85°	142	183	246	244	235	172
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	5232.1	5232.1	5232.1	5232.1	5232.1
2.5°	5210.1	5240.9	5215.1	5237.7	5256.0
5°	5198.2	5229.6	5201.9	5224.6	5225.2
7.5°	5174.9	5206.3	5178.1	5200.7	5200.1
10°	5141.6	5171.2	5144.2	5171.2	5171.2
12.5°	5096.4	5125.3	5098.9	5124.1	5120.3
15°	5043.7	5069.4	5043.0	5058.7	5055.0
17.5°	4981.5	5004.7	4975.2	4988.4	4980.9
20°	4905.5	4926.8	4894.2	4911.1	4895.4
22.5°	4820.1	4840.2	4806.9	4819.4	4801.8
25°	4724.0	4742.8	4706.4	4718.3	4700.7
27.5°	4620.3	4637.3	4596.5	4610.9	4597.1
30°	4506.6	4514.8	4479.6	4498.5	4482.1
32.5°	4379.8	4384.8	4354.0	4371.0	4343.3
35°	4242.8	4248.5	4216.5	4210.8	4156.8
37.5°	4096.5	4099.0	4068.8	4018.0	3928.8
40°	3939.5	3938.2	3899.3	3781.8	3702.7
42.5°	3771.8	3771.1	3702.7	3568.9	3523.7
45°	3590.2	3580.8	3475.3	3367.3	3323.3
47.5°	3395.5	3385.5	3237.9	3151.8	3052.0
50°	3185.1	3167.5	2991.0	2873.6	2736.0
52.5°	2958.4	2931.4	2751.7	2562.0	2432.0
55°	2712.8	2672.6	2496.1	2253.6	2158.8
57.5°	2457.1	2397.5	2226.0	1989.8	1912.6
60°	2194.6	2128.0	1941.5	1747.4	1697.1
62.5°	1924.5	1858.6	1668.2	1521.9	1494.3
65°	1648.8	1601.0	1420.8	1328.4	1319.0
67.5°	1366.1	1349.2	1211.6	1164.5	1160.7
70°	1107.3	1104.2	1027.6	1003.7	1006.2
72.5°	885.0	881.2	869.9	858.0	858.6
75°	677.7	689.7	711.6	721.1	720.4
77.5°	505.6	530.1	576.6	595.4	592.3
80°	361.2	397.6	456.6	474.2	454.7
82.5°	240.6	278.9	348.6	351.1	335.4
85°	142.0	182.8	246.2	244.3	234.9
87.5°	70.3	109.9	147.6	141.3	135.0
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)