

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-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 (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-L740-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**

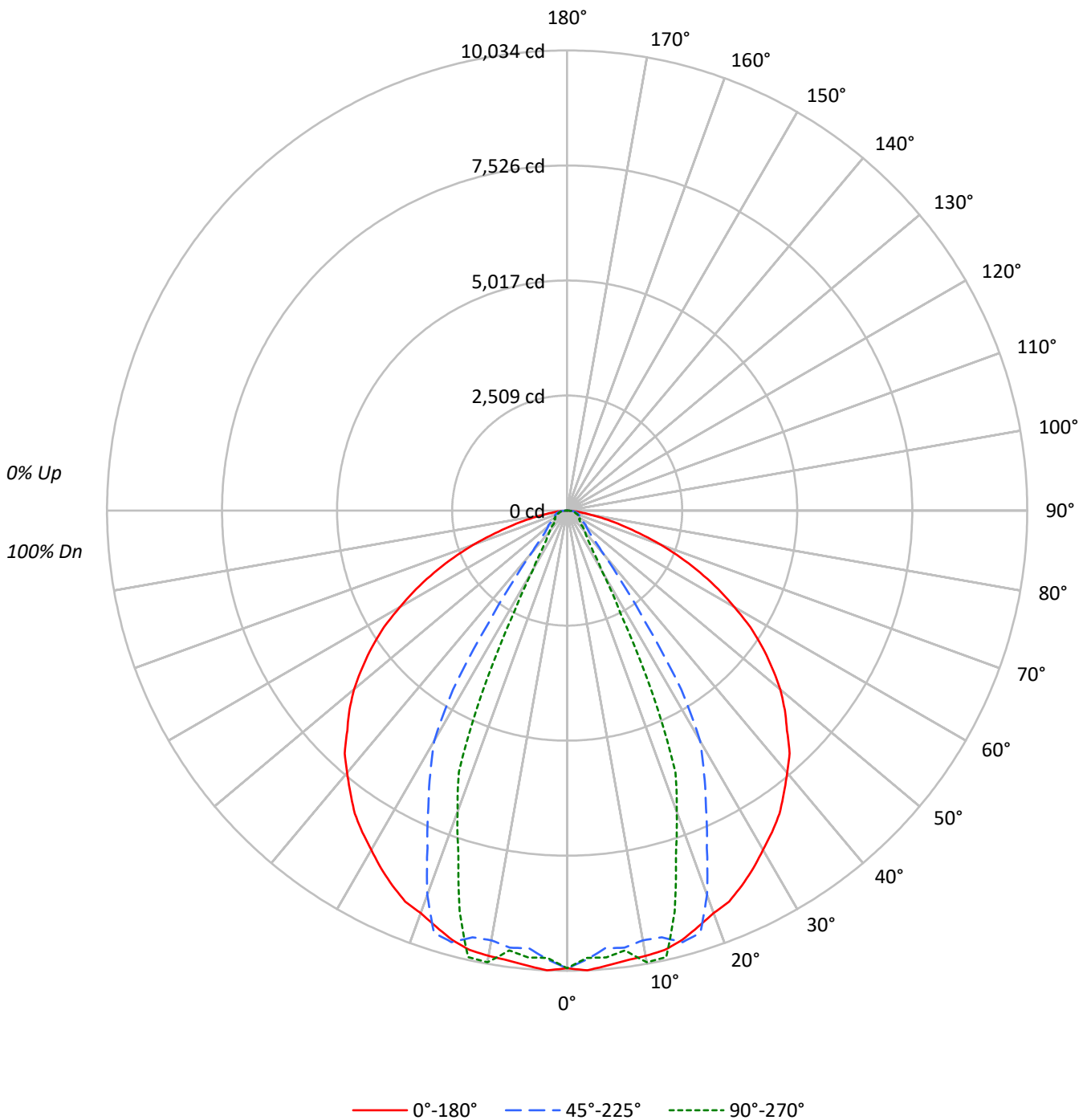
Lumens per Lamp: N/A  
Luminaire Lumens: 13416.0 lumens  
Efficiency: N/A  
Efficacy: 140.9 lumens/watt  
Spacing Criteria (0/90/45): 1.27 / 0.81 / 0.91  
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')  
CIE Type: Direct

Input Watts (W): 95.2  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): 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°	13427	13427	13427
5°	13450	12937	13210
10°	13469	13000	13667
15°	13499	13569	12612
20°	13371	12763	10010
25°	13390	10640	6539
30°	13271	9013	2349
35°	13257	4883	1321
40°	13107	2129	1035
45°	12904	1316	811
50°	12703	1146	766
55°	12203	994	749
60°	11323	890	805
65°	10177	1006	880
70°	8535	1082	908
75°	6381	1234	983
80°	4007	1433	1120
85°	2668	1797	1641



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	925.0	6.9
10°-20°	2611.9	19.5
20°-30°	3198.3	23.8
30°-40°	2511.7	18.7
40°-50°	1862.5	13.9
50°-60°	1133.9	8.5
60°-70°	679.2	5.1
70°-80°	372.7	2.8
80°-90°	120.9	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°	6735.2	50.2
0°-40°	9246.8	68.9
0°-60°	12243.3	91.3
0°-90°	13416.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	13416.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	9980	9980	9980	9980	9980	
5°	9958	9687	9579	9684	9780	947
15°	9691	9425	9741	9348	9054	2729
25°	9020	9048	7167	5621	4405	4152
35°	8071	7342	2973	995	804	5036
45°	6782	4869	691	524	426	5244
55°	5202	1342	424	358	320	4629
65°	3197	396	316	297	276	3158
75°	1227	250	237	206	189	1329
85°	173	136	116	107	106	211
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	9979.5	9979.5	9979.5	9979.5	9979.5
2.5°	10034.0	9898.8	9795.2	9737.4	9760.9
5°	9958.0	9686.9	9578.6	9684.2	9780.4
7.5°	9892.1	9489.2	9611.6	9621.0	9671.5
10°	9858.4	9470.4	9514.8	9723.9	10003.0
12.5°	9814.0	9514.1	9529.5	9814.7	9972.1
15°	9691.0	9425.3	9741.4	9348.0	9054.0
17.5°	9511.4	9218.2	9652.6	8281.3	7881.8
20°	9338.5	8992.8	8913.5	7376.7	6991.3
22.5°	9226.9	8958.5	7962.5	6573.0	6174.8
25°	9019.7	9048.0	7166.8	5621.3	4404.6
27.5°	8791.7	8837.5	6463.3	3748.9	2523.5
30°	8541.6	8594.0	5801.5	2215.4	1511.9
32.5°	8314.9	8019.0	4633.3	1382.1	1051.2
35°	8070.8	7341.7	2972.7	994.7	804.4
37.5°	7763.4	6630.1	1881.8	786.9	675.3
40°	7462.1	5991.2	1212.0	671.9	589.2
42.5°	7180.3	5464.6	881.7	587.1	532.0
45°	6781.5	4869.4	691.4	523.9	426.4
47.5°	6436.4	4171.2	604.6	443.2	367.9
50°	6068.5	3189.3	547.5	394.1	365.9
52.5°	5632.0	2086.3	505.8	377.3	341.7
55°	5202.3	1341.8	423.7	358.5	319.5
57.5°	4738.2	850.8	373.9	347.7	333.6
60°	4207.6	573.7	330.9	329.6	299.3
62.5°	3716.6	471.5	319.5	316.1	283.1
65°	3196.7	395.5	316.1	297.3	276.4
67.5°	2677.5	339.0	285.8	271.7	253.6
70°	2169.7	310.1	275.1	269.0	230.7
72.5°	1647.8	255.6	244.1	228.0	191.7
75°	1227.4	249.5	237.4	206.5	189.0
77.5°	830.6	230.0	215.9	185.0	170.8
80°	517.2	211.2	185.0	162.1	144.6
82.5°	307.4	176.2	152.0	133.8	122.4
85°	172.8	135.9	116.4	106.9	106.3
87.5°	37.0	49.1	39.0	37.0	26.2
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)