

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-LD5-15HE-W-A-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 (P23761)
Test Lab: INNOVATION CENTER P2
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: HBLED-LD5-15HE-W-A-UNV-L750-ED1-U
Description: METALUX HIGH BAY LINEAR LED
Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

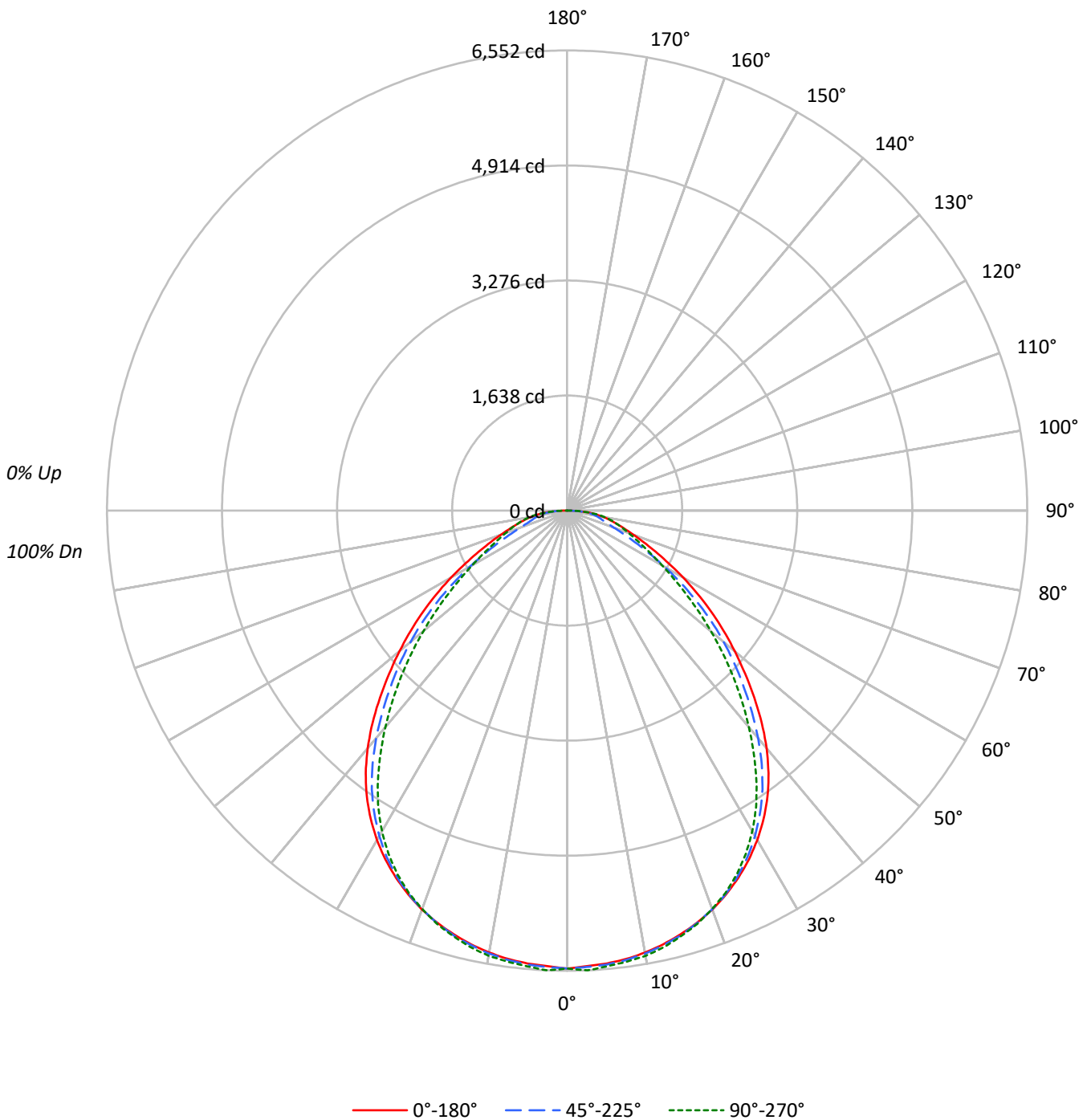
Lumens per Lamp: N/A
Luminaire Lumens: 14979.0 lumens
Efficiency: N/A
Efficacy: 163.2 lumens/watt
Spacing Criteria (0/90/45): 1.23 / 1.2 / 1.27
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

Input Watts (W): 91.8
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	110	105	101	98	107	103	100	96	99	96	93	95	93	90	91	90	88	86					86			
2	101	93	87	82	98	91	86	81	88	83	79	85	81	77	82	78	75	73					73			
3	93	83	75	70	90	81	75	69	79	73	68	76	71	67	73	69	65	63					63			
4	85	74	66	60	83	73	65	60	71	64	59	68	63	58	66	61	57	55					55			
5	79	67	59	52	77	66	58	52	64	57	52	62	56	51	60	55	51	49					49			
6	73	61	52	46	72	60	52	46	58	51	46	56	50	45	55	49	45	43					43			
7	68	55	47	41	67	55	47	41	53	46	41	52	45	41	50	45	40	38					38			
8	64	51	43	37	62	50	42	37	49	42	37	48	41	37	47	41	36	35					35			
9	60	47	39	34	58	46	39	34	45	38	33	44	38	33	43	37	33	31					31			
10	56	43	36	31	55	43	36	31	42	35	31	41	35	30	40	34	30	29					29			

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	8773	8773	8773
5°	8742	8762	8798
10°	8730	8750	8794
15°	8701	8718	8739
20°	8655	8649	8643
25°	8561	8532	8484
30°	8413	8312	8191
35°	8169	7964	7718
40°	7763	7429	7073
45°	7171	6771	6361
50°	6519	6097	5595
55°	5862	5279	4837
60°	5129	4314	4197
65°	4422	3393	3788
70°	3943	2769	3651
75°	3777	2703	3815
80°	4086	3196	4251
85°	4587	3849	4631



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	618.0	4.1
10°-20°	1768.7	11.8
20°-30°	2645.7	17.7
30°-40°	3018.6	20.2
40°-50°	2747.7	18.3
50°-60°	2017.6	13.5
60°-70°	1191.3	8.0
70°-80°	682.7	4.6
80°-90°	288.7	1.9
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°	5032.4	33.6
0°-40°	8050.9	53.7
0°-60°	12816.3	85.6
0°-90°	14979.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	14979.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	6521	6521	6521	6521	6521	
5°	6473	6513	6488	6513	6514	615
15°	6246	6281	6259	6281	6274	1763
25°	5767	5787	5747	5745	5715	2655
35°	4973	4949	4848	4765	4699	3099
45°	3769	3747	3558	3399	3343	2904
55°	2499	2383	2250	2087	2062	2235
65°	1389	1213	1066	1140	1190	1398
75°	727	623	520	678	734	783
85°	297	274	249	294	300	311
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	6520.6	6520.6	6520.6	6520.6	6520.6
2.5°	6490.5	6528.0	6504.4	6530.2	6552.2
5°	6472.8	6513.3	6487.5	6513.3	6514.0
7.5°	6440.5	6478.0	6453.0	6480.9	6478.0
10°	6389.7	6427.2	6404.4	6434.6	6436.8
12.5°	6325.0	6361.0	6337.5	6372.1	6366.2
15°	6246.3	6280.9	6258.8	6280.9	6273.5
17.5°	6153.7	6185.3	6156.6	6180.9	6168.4
20°	6044.8	6071.3	6040.4	6063.2	6036.0
22.5°	5914.7	5938.2	5905.8	5918.3	5890.4
25°	5766.8	5787.4	5747.0	5744.8	5714.6
27.5°	5602.1	5613.2	5561.7	5544.0	5509.5
30°	5415.3	5418.3	5349.9	5316.8	5271.9
32.5°	5205.8	5198.4	5110.9	5061.6	5006.5
35°	4973.4	4949.1	4848.4	4765.3	4699.1
37.5°	4710.8	4672.6	4552.0	4429.2	4365.9
40°	4419.6	4374.8	4229.9	4077.7	4026.9
42.5°	4102.7	4064.4	3893.8	3735.0	3685.0
45°	3768.8	3746.8	3558.5	3398.9	3343.0
47.5°	3435.0	3418.8	3234.9	3072.4	3004.8
50°	3114.3	3079.0	2912.8	2734.9	2673.1
52.5°	2803.3	2731.2	2584.9	2402.5	2356.9
55°	2498.8	2383.4	2250.3	2087.0	2062.0
57.5°	2197.3	2048.0	1918.6	1796.5	1795.8
60°	1906.1	1735.5	1603.1	1539.1	1559.7
62.5°	1633.3	1458.3	1314.9	1319.3	1356.8
65°	1389.1	1212.6	1065.6	1139.8	1189.8
67.5°	1179.5	1011.1	861.9	1000.1	1047.9
70°	1002.3	850.1	703.8	876.6	928.0
72.5°	853.0	725.1	593.5	773.6	825.8
75°	726.6	622.9	519.9	678.0	733.9
77.5°	623.6	531.7	466.2	586.8	644.9
80°	527.3	446.4	412.5	498.6	548.6
82.5°	417.7	361.8	342.0	405.2	430.9
85°	297.1	274.3	249.3	294.2	300.0
87.5°	163.3	169.1	139.7	169.1	169.9
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)