

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-LD5-18SE-W-CLWG-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 (P33385)
Test Lab: INNOVATION CENTER-P3
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: HBLED-LD5-18SE-W-CLWG-UNV-L750-ED1-U
Description: METALUX HIGH BAY LINEAR LED
WIDE DISTRIBUTION WITH CLEAR LENS, WIREGUARD & DOORFRAME
Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

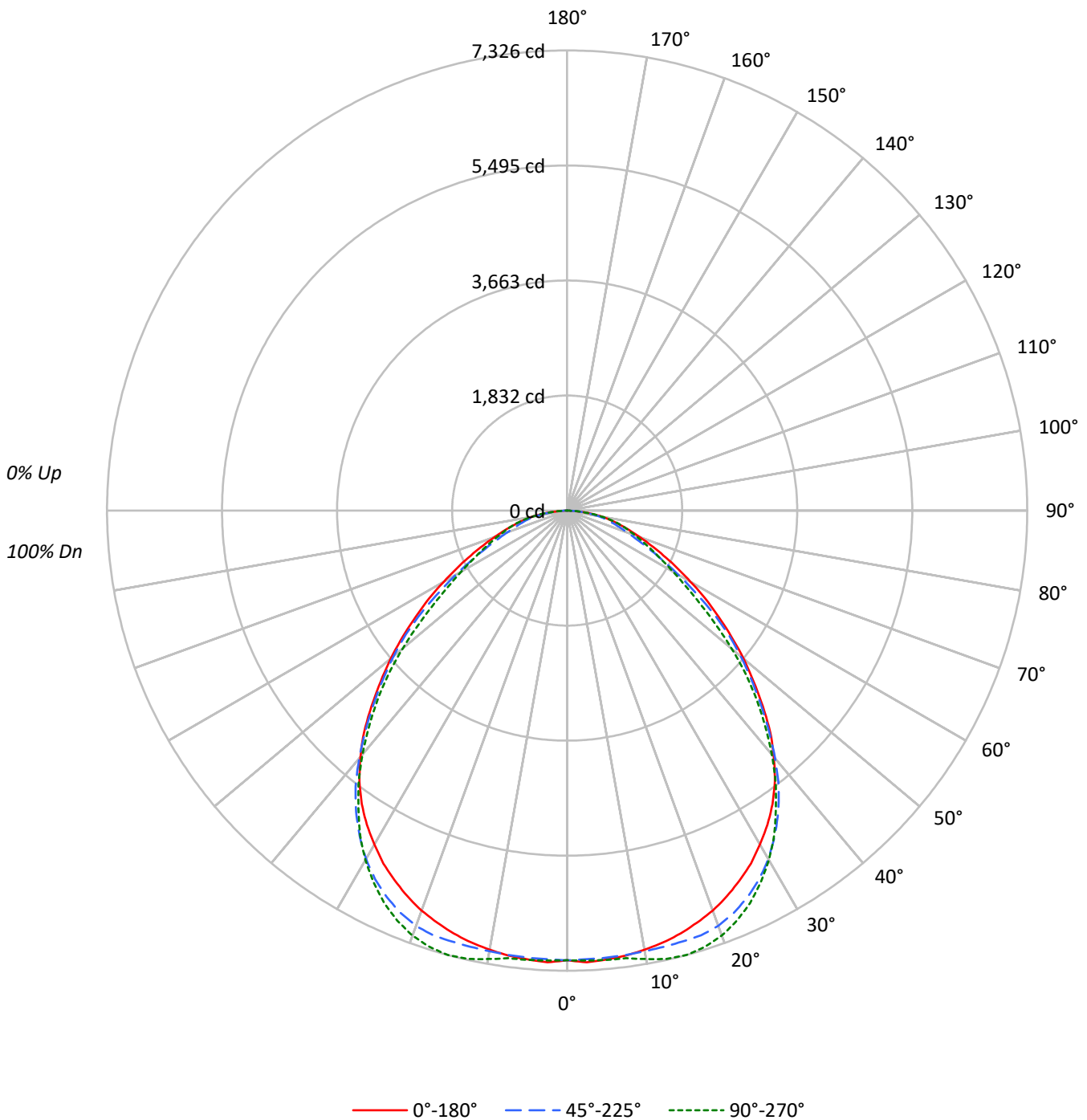
Lumens per Lamp: N/A
Luminaire Lumens: 17855.0 lumens
Efficiency: N/A
Efficacy: 146.6 lumens/watt
Spacing Criteria (0/90/45): 1.27 / 1.3 / 1.33
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

Input Watts (W): 121.76
Input Voltage (V): NR
Input Current (A_{in}): 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	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	102	98	107	103	100	96	99	96	93	95	93	91	92	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	92	83	75	69	90	81	74	68	78	72	67	76	70	66	73	69	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	65	57	52	63	56	51	61	55	50	60	54	50	48				48
6	73	60	52	46	71	59	51	45	58	50	45	56	50	45	54	49	44	42				42
7	68	55	46	41	66	54	46	40	53	45	40	51	45	40	50	44	40	38				38
8	63	50	42	36	62	50	42	36	48	41	36	47	41	36	46	40	36	34				34
9	59	46	38	33	58	46	38	33	45	38	33	43	37	33	42	37	32	31				31
10	56	43	35	30	54	42	35	30	41	34	30	40	34	30	39	34	30	28				28

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	9633	9633	9633
5°	9690	9650	9697
10°	9698	9731	9905
15°	9710	9893	10204
20°	9704	10074	10309
25°	9644	10083	10231
30°	9534	9950	9981
35°	9363	9627	9512
40°	8994	9049	8906
45°	8380	8292	8124
50°	7673	7549	7163
55°	6892	6636	6056
60°	6112	5491	5227
65°	5385	4562	4744
70°	4816	3959	4519
75°	4512	3850	4570
80°	4393	3892	4350
85°	3506	3078	3193



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	682.0	3.8
10°-20°	2008.9	11.3
20°-30°	3090.4	17.3
30°-40°	3606.7	20.2
40°-50°	3351.6	18.8
50°-60°	2484.3	13.9
60°-70°	1518.7	8.5
70°-80°	865.0	4.8
80°-90°	247.4	1.4
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°	5781.3	32.4
0°-40°	9388.0	52.6
0°-60°	15223.9	85.3
0°-90°	17855.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	17855.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	7159	7159	7159	7159	7159	
5°	7174	7141	7145	7139	7180	682
15°	6971	6967	7102	7242	7326	1968
25°	6496	6546	6792	6849	6892	2993
35°	5700	5745	5861	5813	5791	3552
45°	4404	4430	4358	4290	4269	3394
55°	2938	2864	2829	2628	2582	2637
65°	1692	1536	1433	1472	1490	1693
75°	868	814	740	844	879	929
85°	227	222	199	207	207	262
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	7159.3	7159.3	7159.3	7159.3	7159.3
2.5°	7198.1	7157.5	7150.1	7133.5	7170.4
5°	7174.1	7140.9	7144.6	7139.0	7179.7
7.5°	7146.4	7122.4	7137.2	7135.3	7188.9
10°	7098.4	7085.5	7122.4	7163.0	7249.8
12.5°	7044.8	7031.9	7113.2	7216.6	7310.8
15°	6971.0	6967.3	7102.1	7242.4	7325.5
17.5°	6878.7	6884.2	7089.2	7209.2	7283.1
20°	6777.1	6786.3	7035.6	7133.5	7200.0
22.5°	6646.0	6677.4	6932.2	7013.5	7065.2
25°	6496.4	6546.3	6791.9	6849.1	6891.6
27.5°	6335.7	6385.6	6618.3	6647.8	6671.8
30°	6136.3	6206.5	6404.1	6407.8	6424.4
32.5°	5933.2	5996.0	6147.4	6130.8	6134.5
35°	5700.5	5744.8	5861.2	5813.2	5791.0
37.5°	5432.8	5456.8	5530.6	5458.6	5454.9
40°	5120.7	5152.1	5152.1	5052.3	5070.8
42.5°	4788.3	4799.4	4753.2	4659.0	4673.8
45°	4404.2	4430.0	4358.0	4289.7	4269.4
47.5°	4023.8	4049.6	3973.9	3894.5	3859.4
50°	3665.5	3652.6	3606.4	3471.6	3421.8
52.5°	3294.4	3253.7	3235.3	3037.7	2980.4
55°	2938.0	2864.1	2829.0	2627.7	2581.6
57.5°	2607.4	2474.5	2408.0	2251.0	2232.6
60°	2271.3	2121.8	2040.5	1938.9	1942.6
62.5°	1966.6	1809.7	1711.8	1682.3	1695.2
65°	1691.5	1536.4	1433.0	1471.8	1490.2
67.5°	1442.2	1314.8	1198.5	1288.9	1307.4
70°	1224.3	1122.7	1006.4	1139.4	1148.6
72.5°	1043.3	960.2	862.4	987.9	1008.3
75°	867.9	814.4	740.5	843.9	879.0
77.5°	714.6	672.2	629.7	692.5	731.3
80°	566.9	524.4	502.3	535.5	561.4
82.5°	400.7	373.0	350.9	374.9	387.8
85°	227.1	221.6	199.4	206.8	206.8
87.5°	51.7	59.1	66.5	60.9	51.7
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)