

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-LD5-30SE-W-FLI-UNV-L740-ED3-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 (P26703)
Test Lab: INNOVATION CENTER-P2
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: HBLED-LD5-30SE-W-FLI-UNV-L740-ED3-U
Description: METALUX HIGH BAY LINEAR LED
Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

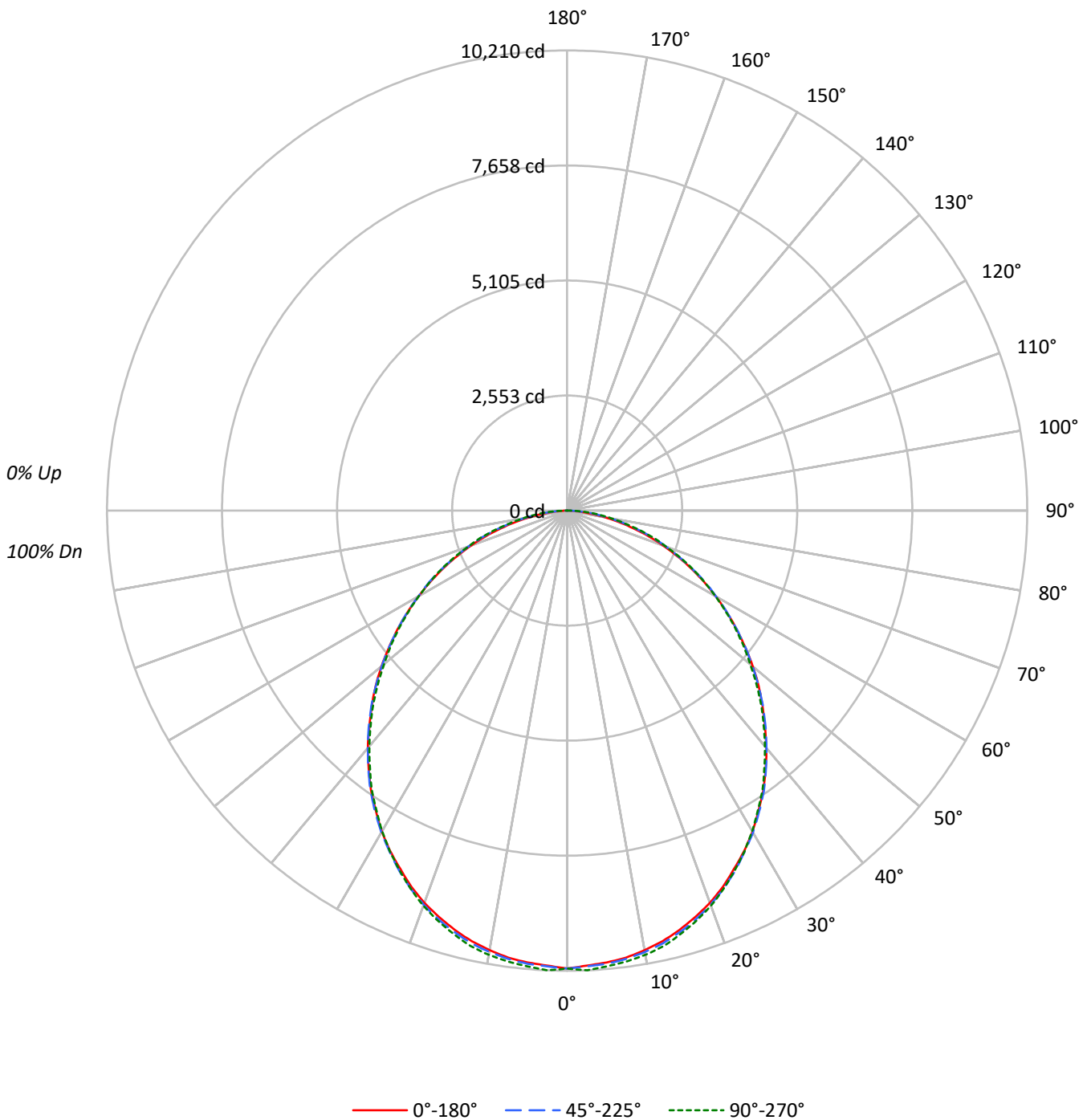
Lumens per Lamp: N/A
Luminaire Lumens: 26541.0 lumens
Efficiency: N/A
Efficacy: 137.5 lumens/watt
Spacing Criteria (0/90/45): 1.2 / 1.2 / 1.31
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

Input Watts (W): 193
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	104	100	96	106	102	98	95	98	95	92	94	91	89	90	88	86	84
2	99	91	85	79	97	89	83	78	86	81	76	83	78	74	80	76	73	71
3	91	80	72	66	88	79	71	65	76	69	64	73	68	63	71	66	62	60
4	83	71	63	56	81	70	62	56	68	61	55	65	59	54	63	58	53	51
5	77	64	55	49	75	63	54	48	61	53	48	59	52	47	57	51	47	45
6	71	58	49	42	69	57	48	42	55	47	42	53	47	42	52	46	41	39
7	66	52	44	38	64	52	43	38	50	43	37	49	42	37	47	41	37	35
8	61	48	39	34	60	47	39	34	46	39	33	45	38	33	43	37	33	31
9	57	44	36	30	56	43	36	30	42	35	30	41	35	30	40	34	30	28
10	54	41	33	28	52	40	33	28	39	32	27	38	32	27	37	31	27	25

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	13671	13671	13671
5°	13593	13632	13709
10°	13531	13586	13674
15°	13413	13485	13551
20°	13261	13324	13363
25°	13015	13089	13070
30°	12775	12809	12757
35°	12459	12491	12411
40°	12084	12084	11991
45°	11662	11694	11574
50°	11261	11242	11102
55°	10774	10775	10678
60°	10252	10264	10224
65°	9662	9759	9784
70°	8925	9168	9179
75°	7887	8398	8529
80°	6468	7355	7770
85°	4489	6175	6982



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	960.9	3.6
10°-20°	2733.7	10.3
20°-30°	4062.4	15.3
30°-40°	4750.0	17.9
40°-50°	4735.9	17.8
50°-60°	4109.0	15.5
60°-70°	3035.0	11.4
70°-80°	1699.3	6.4
80°-90°	453.4	1.7
90°-100°	1.4	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°	7757.0	29.2
0°-40°	12507.1	47.1
0°-60°	21352.0	80.4
0°-90°	26539.6	100.0
90°-120°	1.4	0.0
90°-150°	1.4	0.0
90°-180°	1.0	0.0
0°-180°	26541.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	10161	10161	10161	10161	10161	
5°	10064	10128	10093	10137	10150	956
15°	9629	9696	9681	9728	9728	2716
25°	8767	8837	8817	8836	8804	4042
35°	7585	7652	7604	7603	7556	4738
45°	6129	6194	6146	6120	6083	4731
55°	4593	4624	4594	4586	4552	4107
65°	3035	3065	3065	3081	3073	3002
75°	1517	1562	1615	1627	1641	1616
85°	291	352	400	436	452	353
90°	0	6	8	17	16	12
95°	0	0	0	0	0	0
105°	0	0	0	0	0	0
115°	0	0	0	0	0	0
125°	0	0	0	0	0	0
135°	0	0	0	0	0	0
145°	0	0	0	0	0	0
155°	0	0	0	0	0	0
165°	0	0	0	0	0	0
175°	0	0	0	0	0	0
180°	0	0	0	0	0	0



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	10160.6	10160.6	10160.6	10160.6	10160.6
2.5°	10105.1	10165.2	10123.2	10163.2	10209.8
5°	10064.4	10127.7	10092.8	10137.4	10150.3
7.5°	10004.9	10066.3	10032.7	10077.3	10090.9
10°	9904.1	9970.7	9944.2	9994.6	10008.8
12.5°	9786.5	9849.2	9831.8	9890.6	9900.2
15°	9628.9	9696.1	9681.2	9727.7	9728.4
17.5°	9454.4	9517.7	9506.7	9542.9	9541.6
20°	9261.2	9329.1	9305.8	9345.2	9332.9
22.5°	9032.5	9104.8	9075.8	9108.7	9077.7
25°	8766.9	8837.3	8816.7	8836.0	8803.7
27.5°	8509.7	8574.4	8531.7	8555.0	8520.7
30°	8222.9	8277.8	8244.8	8252.6	8211.2
32.5°	7900.4	7965.7	7925.6	7924.3	7880.4
35°	7585.1	7651.7	7604.5	7603.2	7556.0
37.5°	7236.2	7298.2	7242.6	7245.9	7191.0
40°	6880.2	6933.8	6880.2	6877.6	6827.2
42.5°	6493.8	6564.8	6515.7	6521.6	6454.4
45°	6128.7	6194.0	6145.5	6120.3	6082.8
47.5°	5764.9	5793.3	5753.3	5746.8	5693.8
50°	5379.8	5401.1	5370.8	5363.0	5303.6
52.5°	4981.8	5018.6	4979.8	4969.5	4930.1
55°	4592.8	4624.5	4593.5	4585.7	4552.1
57.5°	4201.2	4242.6	4210.9	4203.2	4176.0
60°	3809.7	3822.0	3814.2	3825.8	3799.3
62.5°	3420.7	3449.1	3458.2	3454.9	3434.3
65°	3034.9	3064.7	3065.3	3080.8	3073.1
67.5°	2640.2	2678.9	2689.9	2706.1	2713.2
70°	2268.6	2298.3	2330.6	2340.3	2333.2
72.5°	1894.5	1942.3	1978.5	1986.9	2017.3
75°	1517.2	1562.4	1615.4	1627.0	1640.6
77.5°	1166.9	1227.0	1274.8	1290.4	1307.2
80°	834.8	901.4	949.2	970.5	1002.8
82.5°	547.9	615.8	664.2	685.6	725.0
85°	290.8	351.5	400.0	435.5	452.3
87.5°	85.9	137.6	165.4	175.8	190.6
90°	0.0	6.5	7.8	17.4	16.2
92.5°	0.0	0.0	0.0	0.0	0.0
95°	0.0	0.0	0.0	0.0	0.0
97.5°	0.0	0.0	0.0	0.0	0.0
100°	0.0	0.0	0.0	0.0	0.0
102.5°	0.0	0.0	0.0	0.0	0.0
105°	0.0	0.0	0.0	0.0	0.0
107.5°	0.0	0.0	0.0	0.0	0.0
110°	0.0	0.0	0.0	0.0	0.0



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	0.0	0.0	0.0	0.0	0.0
115°	0.0	0.0	0.0	0.0	0.0
117.5°	0.0	0.0	0.0	0.0	0.0
120°	0.0	0.0	0.0	0.0	0.0
122.5°	0.0	0.0	0.0	0.0	0.0
125°	0.0	0.0	0.0	0.0	0.0
127.5°	0.0	0.0	0.0	0.0	0.0
130°	0.0	0.0	0.0	0.0	0.0
132.5°	0.0	0.0	0.0	0.0	0.0
135°	0.0	0.0	0.0	0.0	0.0
137.5°	0.0	0.0	0.0	0.0	0.0
140°	0.0	0.0	0.0	0.0	0.0
142.5°	0.0	0.0	0.0	0.0	0.0
145°	0.0	0.0	0.0	0.0	0.0
147.5°	0.0	0.0	0.0	0.0	0.0
150°	0.0	0.0	0.0	0.0	0.0
152.5°	0.0	0.0	0.0	0.0	0.0
155°	0.0	0.0	0.0	0.0	0.0
157.5°	0.0	0.0	0.0	0.0	0.0
160°	0.0	0.0	0.0	0.0	0.0
162.5°	0.0	0.0	0.0	0.0	0.0
165°	0.0	0.0	0.0	0.0	0.0
167.5°	0.0	0.0	0.0	0.0	0.0
170°	0.0	0.0	0.0	0.0	0.0
172.5°	0.0	0.0	0.0	0.0	0.0
175°	0.0	0.0	0.0	0.0	0.0
177.5°	0.0	0.0	0.0	0.0	0.0
180°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)