

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-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 (P23760)
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-UNV-L750-ED1-U
Description: METALUX HIGH BAY LINEAR LED
Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

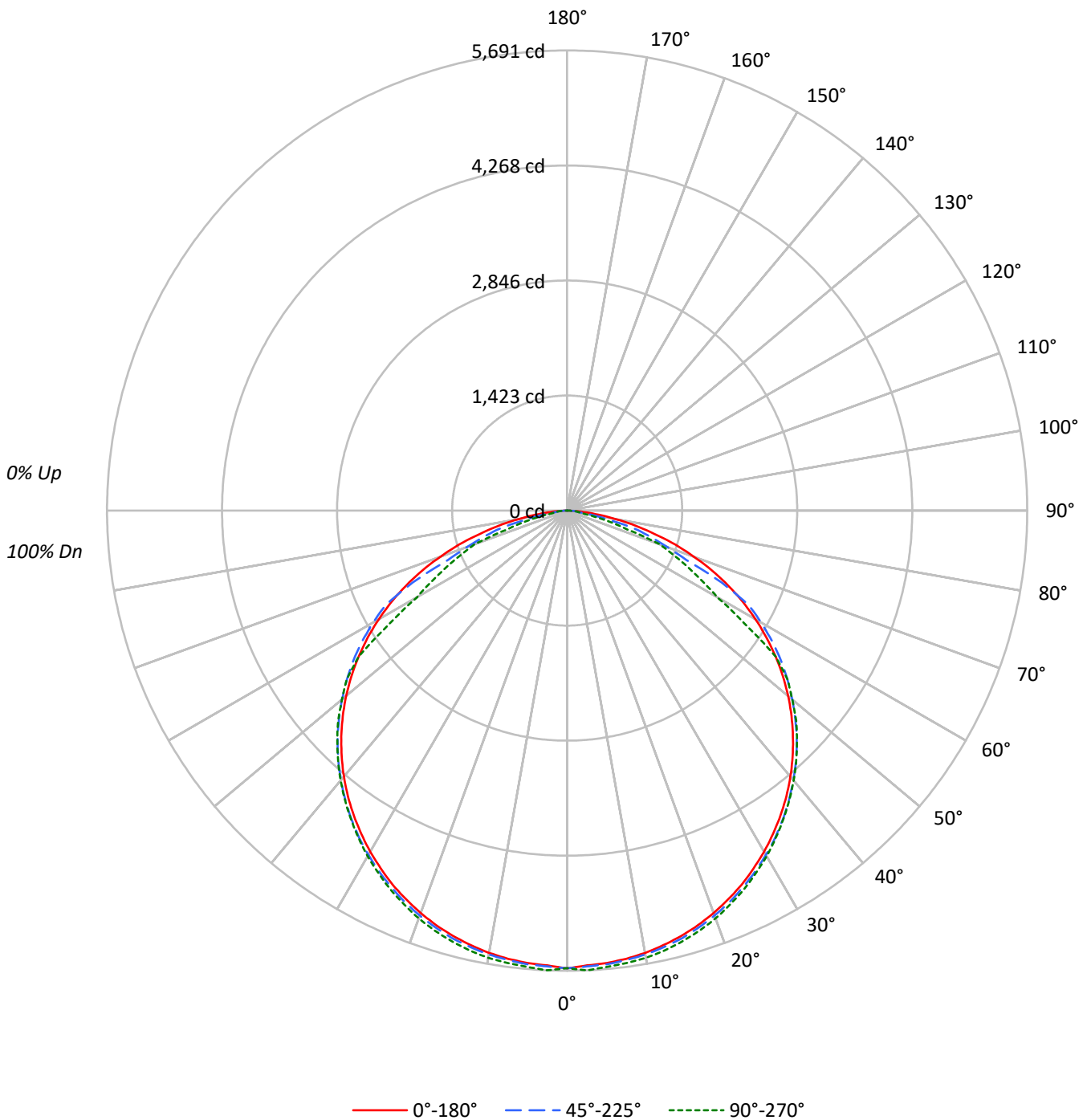
Lumens per Lamp: N/A
Luminaire Lumens: 16342.0 lumens
Efficiency: N/A
Efficacy: 171.7 lumens/watt
Spacing Criteria (0/90/45): 1.28 / 1.29 / 1.42
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

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	89	91	89	87	85
2	99	91	85	79	97	90	83	78	86	81	76	83	78	75	80	76	73	71
3	91	80	72	66	88	79	71	65	76	69	64	73	68	63	70	66	62	60
4	83	71	62	56	81	70	62	55	67	60	55	65	59	54	63	57	53	51
5	76	63	54	48	74	62	54	48	60	53	47	58	52	47	56	51	46	44
6	70	57	48	42	68	56	48	42	54	47	41	53	46	41	51	45	40	38
7	65	52	43	37	63	51	43	37	49	42	36	48	41	36	46	40	36	34
8	61	47	39	33	59	46	38	33	45	38	32	44	37	32	43	37	32	30
9	57	43	35	29	55	43	35	29	41	34	29	40	34	29	39	33	29	27
10	53	40	32	27	52	39	32	27	38	31	26	37	31	26	36	30	26	24

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	7616	7616	7616
5°	7585	7606	7649
10°	7589	7616	7674
15°	7587	7628	7681
20°	7583	7632	7685
25°	7581	7635	7677
30°	7567	7641	7670
35°	7558	7645	7655
40°	7544	7644	7656
45°	7516	7641	7650
50°	7471	7609	7607
55°	7384	7568	7381
60°	7247	7457	5775
65°	7005	6711	5203
70°	6563	5163	4795
75°	5811	4502	2988
80°	4785	2650	1336
85°	3154	1624	1749



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	537.2	3.3
10°-20°	1549.8	9.5
20°-30°	2376.0	14.5
30°-40°	2914.0	17.8
40°-50°	3094.1	18.9
50°-60°	2826.1	17.3
60°-70°	1968.1	12.0
70°-80°	917.9	5.6
80°-90°	158.8	1.0
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°	4463.0	27.3
0°-40°	7376.9	45.1
0°-60°	13297.2	81.4
0°-90°	16342.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	16342.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	5661	5661	5661	5661	5661	
5°	5616	5655	5632	5659	5663	534
15°	5447	5485	5476	5509	5514	1538
25°	5106	5151	5143	5181	5171	2353
35°	4601	4654	4654	4686	4660	2879
45°	3950	4010	4016	4041	4020	3046
55°	3148	3211	3226	3232	3146	2811
65°	2200	2268	2108	1676	1634	2171
75°	1118	1188	866	600	575	1195
85°	204	134	105	113	113	264
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	5660.7	5660.7	5660.7	5660.7	5660.7
2.5°	5630.9	5666.8	5643.1	5668.9	5690.6
5°	5615.9	5655.3	5631.5	5658.7	5663.4
7.5°	5591.5	5628.8	5607.1	5637.0	5644.4
10°	5554.8	5591.5	5574.5	5609.8	5616.6
12.5°	5505.3	5542.6	5529.7	5568.4	5573.2
15°	5446.9	5484.9	5476.1	5509.4	5514.1
17.5°	5378.4	5417.8	5407.6	5442.9	5446.3
20°	5296.3	5339.0	5330.2	5371.6	5367.5
22.5°	5204.0	5249.5	5242.7	5284.1	5271.8
25°	5106.3	5151.0	5142.9	5180.9	5171.4
27.5°	4991.6	5041.1	5033.6	5070.3	5055.4
30°	4870.8	4921.0	4918.3	4951.5	4936.6
32.5°	4740.5	4794.1	4791.4	4823.9	4800.9
35°	4601.3	4654.3	4654.3	4685.5	4660.4
37.5°	4454.1	4507.7	4508.4	4538.2	4514.5
40°	4295.3	4348.9	4352.3	4380.8	4359.0
42.5°	4128.3	4186.7	4189.4	4215.2	4194.8
45°	3949.8	4009.5	4015.6	4041.4	4020.4
47.5°	3763.2	3823.6	3829.0	3856.8	3841.9
50°	3569.1	3627.4	3634.9	3658.0	3634.2
52.5°	3364.1	3423.8	3434.0	3448.3	3437.4
55°	3147.6	3210.8	3226.4	3231.8	3146.3
57.5°	2923.7	2988.1	3003.1	2878.2	2603.3
60°	2692.9	2756.7	2771.0	2341.4	2145.9
62.5°	2452.7	2515.1	2530.7	1940.3	1877.9
65°	2200.2	2268.1	2107.9	1676.3	1634.2
67.5°	1941.0	2010.9	1594.2	1436.7	1411.6
70°	1668.2	1738.7	1312.5	1225.0	1218.9
72.5°	1406.2	1458.4	1077.0	928.4	781.8
75°	1117.8	1188.3	866.0	599.9	574.8
77.5°	866.7	749.2	522.6	439.8	346.8
80°	617.6	500.9	342.0	182.6	172.4
82.5°	391.6	327.1	134.4	137.8	143.9
85°	204.3	134.4	105.2	112.7	113.3
87.5°	65.8	57.7	63.1	62.4	61.8
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)