

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-CLWG-UNV-L735-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-LD5-15HE-W-CLWG-UNV-L735-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: 14213.0 lumens  
Efficiency: N/A  
Efficacy: 154.8 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

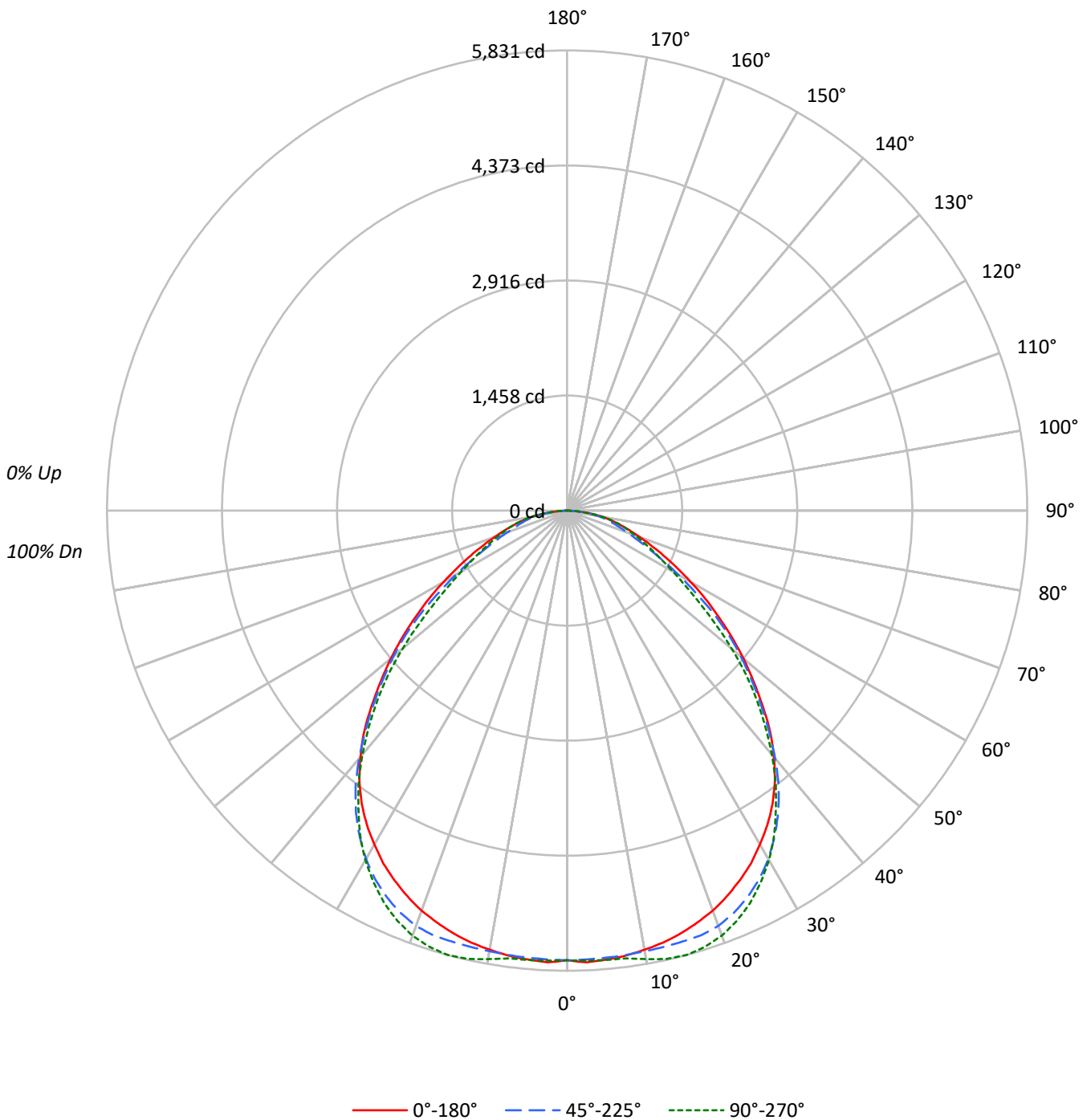
Input Watts (W): 91.8  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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	0
RCR																		
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100
1	110	105	102	98	107	103	100	96	99	96	93	95	93	91	92	90	88	86
2	101	93	87	82	98	91	86	81	88	83	79	85	81	77	82	78	75	73
3	92	83	75	69	90	81	74	68	78	72	67	76	70	66	73	69	65	63
4	85	74	66	59	83	73	65	59	70	64	58	68	62	57	66	61	57	55
5	79	67	58	52	77	65	57	52	63	56	51	61	55	50	60	54	50	48
6	73	60	52	46	71	59	51	45	58	50	45	56	50	45	54	49	44	42
7	68	55	46	41	66	54	46	40	53	45	40	51	45	40	50	44	40	38
8	63	50	42	36	62	50	42	36	48	41	36	47	41	36	46	40	36	34
9	59	46	38	33	58	46	38	33	45	38	33	43	37	33	42	37	32	31
10	56	43	35	30	54	42	35	30	41	34	30	40	34	30	39	34	30	28

**AVERAGE LUMINANCE (cd/sqm):**

	0°	45°	90°
0°	7668	7668	7668
5°	7713	7681	7719
10°	7720	7746	7885
15°	7730	7875	8123
20°	7724	8019	8206
25°	7677	8026	8144
30°	7589	7920	7945
35°	7453	7663	7572
40°	7159	7203	7090
45°	6671	6601	6467
50°	6108	6009	5701
55°	5486	5283	4821
60°	4865	4371	4161
65°	4287	3632	3777
70°	3834	3151	3597
75°	3592	3065	3637
80°	3497	3098	3463
85°	2791	2452	2541



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	542.9	3.8
10°-20°	1599.1	11.3
20°-30°	2460.0	17.3
30°-40°	2871.0	20.2
40°-50°	2667.9	18.8
50°-60°	1977.6	13.9
60°-70°	1208.9	8.5
70°-80°	688.6	4.8
80°-90°	196.9	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°	4602.0	32.4
0°-40°	7473.0	52.6
0°-60°	12118.6	85.3
0°-90°	14213.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	14213.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	5699	5699	5699	5699	5699	
5°	5711	5684	5687	5683	5715	543
15°	5549	5546	5653	5765	5831	1566
25°	5171	5211	5406	5452	5486	2382
35°	4538	4573	4666	4627	4610	2827
45°	3506	3526	3469	3415	3398	2701
55°	2339	2280	2252	2092	2055	2099
65°	1346	1223	1141	1172	1186	1347
75°	691	648	590	672	700	739
85°	181	176	159	165	165	208
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	5699.0	5699.0	5699.0	5699.0	5699.0
2.5°	5729.9	5697.5	5691.7	5678.4	5707.8
5°	5710.8	5684.3	5687.2	5682.8	5715.2
7.5°	5688.7	5669.6	5681.4	5679.9	5722.5
10°	5650.5	5640.2	5669.6	5701.9	5771.0
12.5°	5607.9	5597.6	5662.3	5744.6	5819.5
15°	5549.1	5546.1	5653.4	5765.2	5831.3
17.5°	5475.6	5480.0	5643.1	5738.7	5797.5
20°	5394.7	5402.1	5600.5	5678.4	5731.3
22.5°	5290.4	5315.3	5518.2	5582.9	5624.0
25°	5171.3	5211.0	5406.5	5452.1	5485.9
27.5°	5043.4	5083.1	5268.3	5291.8	5310.9
30°	4884.6	4940.5	5097.8	5100.7	5114.0
32.5°	4723.0	4772.9	4893.5	4880.2	4883.2
35°	4537.7	4573.0	4665.6	4627.4	4609.8
37.5°	4324.6	4343.7	4402.5	4345.2	4342.2
40°	4076.2	4101.2	4101.2	4021.8	4036.5
42.5°	3811.6	3820.4	3783.7	3708.7	3720.4
45°	3505.8	3526.4	3469.1	3414.7	3398.5
47.5°	3203.0	3223.6	3163.3	3100.1	3072.2
50°	2917.9	2907.6	2870.8	2763.5	2723.8
52.5°	2622.4	2590.1	2575.4	2418.1	2372.5
55°	2338.7	2279.9	2252.0	2091.7	2055.0
57.5°	2075.6	1969.7	1916.8	1791.9	1777.2
60°	1808.0	1689.0	1624.3	1543.4	1546.4
62.5°	1565.5	1440.6	1362.6	1339.1	1349.4
65°	1346.5	1223.0	1140.7	1171.6	1186.3
67.5°	1148.0	1046.6	954.0	1026.0	1040.7
70°	974.6	893.7	801.1	907.0	914.3
72.5°	830.5	764.4	686.5	786.4	802.6
75°	690.9	648.2	589.5	671.8	699.7
77.5°	568.9	535.1	501.3	551.2	582.1
80°	451.3	417.5	399.8	426.3	446.9
82.5°	319.0	296.9	279.3	298.4	308.7
85°	180.8	176.4	158.8	164.6	164.6
87.5°	41.2	47.0	52.9	48.5	41.2
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)