

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-CL-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 (P23762)
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-CL-UNV-L735-ED1-U
Description: METALUX HIGH BAY LINEAR LED
Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

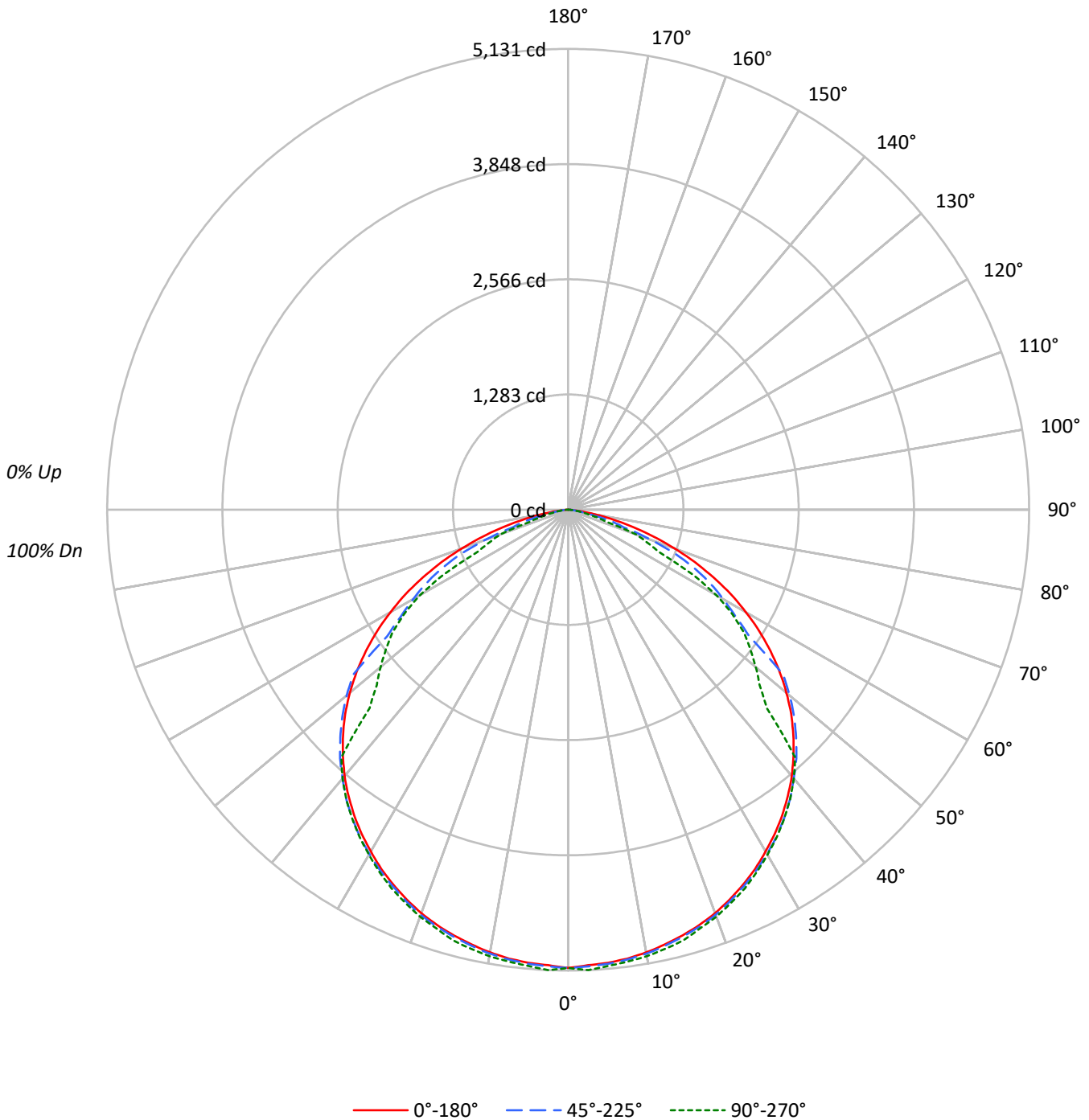
Lumens per Lamp: N/A
Luminaire Lumens: 13791.0 lumens
Efficiency: N/A
Efficacy: 144.9 lumens/watt
Spacing Criteria (0/90/45): 1.28 / 1.29 / 1.41
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

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	110	106	102	98	107	103	100	97	99	96	94		95	93	91		92	90	88	86
2	100	93	86	81	98	91	85	80	87	82	78		84	80	76		81	78	75	73
3	92	82	74	68	89	80	73	67	77	71	66		75	69	65		72	68	64	62
4	84	73	64	58	82	71	64	57	69	62	57		67	61	56		64	59	55	53
5	77	65	56	50	75	64	56	50	62	55	49		60	54	49		58	53	48	46
6	72	59	50	44	70	58	49	43	56	49	43		54	48	43		53	47	42	40
7	66	53	45	39	65	52	44	38	51	43	38		49	43	38		48	42	38	36
8	62	48	40	34	60	48	40	34	46	39	34		45	39	34		44	38	34	32
9	58	44	36	31	56	44	36	31	43	36	31		42	35	31		41	35	30	29
10	54	41	33	28	53	40	33	28	40	33	28		39	32	28		38	32	28	26

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	6864	6864	6864
5°	6839	6854	6887
10°	6838	6858	6897
15°	6838	6858	6914
20°	6846	6872	6904
25°	6838	6864	6906
30°	6825	6876	6891
35°	6822	6884	6889
40°	6801	6861	6861
45°	6743	6824	5946
50°	6638	6739	5705
55°	6450	5768	5604
60°	6148	5362	5120
65°	5685	4977	3546
70°	4950	3873	3159
75°	3910	2599	1698
80°	2517	1241	1058
85°	1036	758	834



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	483.9	3.5
10°-20°	1394.8	10.1
20°-30°	2138.4	15.5
30°-40°	2620.9	19.0
40°-50°	2694.5	19.5
50°-60°	2299.6	16.7
60°-70°	1520.3	11.0
70°-80°	563.3	4.1
80°-90°	75.3	0.5
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°	4017.0	29.1
0°-40°	6638.0	48.1
0°-60°	11632.1	84.3
0°-90°	13791.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	13791.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	5101	5101	5101	5101	5101	
5°	5063	5099	5074	5094	5099	482
15°	4909	4938	4924	4961	4963	1387
25°	4606	4630	4624	4665	4652	2124
35°	4153	4182	4191	4217	4194	2598
45°	3544	3579	3586	3581	3125	2731
55°	2750	2800	2459	2388	2389	2453
65°	1786	1801	1563	1286	1114	1761
75°	752	659	500	336	327	807
85°	67	48	49	53	54	111
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	5101.2	5101.2	5101.2	5101.2	5101.2
2.5°	5076.4	5108.1	5089.4	5113.0	5131.1
5°	5063.4	5098.8	5074.5	5094.4	5099.4
7.5°	5041.0	5073.9	5051.5	5077.6	5073.9
10°	5005.0	5034.8	5019.3	5046.6	5048.4
12.5°	4959.0	4988.8	4974.5	5008.1	5007.5
15°	4908.7	4938.5	4923.6	4960.9	4963.4
17.5°	4849.7	4877.0	4865.8	4900.0	4886.3
20°	4781.4	4805.0	4799.4	4831.7	4821.7
22.5°	4697.5	4721.7	4716.1	4753.4	4738.5
25°	4606.2	4630.4	4623.6	4665.2	4651.5
27.5°	4507.5	4530.4	4529.8	4568.9	4547.8
30°	4393.2	4423.6	4425.5	4460.2	4435.4
32.5°	4280.1	4308.7	4316.8	4342.2	4321.1
35°	4153.4	4182.0	4191.3	4217.4	4194.4
37.5°	4016.8	4041.0	4057.8	4077.0	4059.0
40°	3872.0	3893.8	3906.2	3929.8	3906.2
42.5°	3710.6	3741.6	3759.0	3775.8	3737.3
45°	3543.5	3578.9	3586.3	3580.7	3124.8
47.5°	3366.5	3405.0	3409.3	2973.3	2889.4
50°	3171.4	3219.9	3219.3	2747.8	2725.5
52.5°	2968.3	3014.9	3013.0	2571.4	2556.5
55°	2749.7	2800.0	2459.0	2387.6	2388.8
57.5°	2526.7	2562.7	2206.2	2209.3	2168.3
60°	2284.5	2318.6	1992.5	1973.3	1902.5
62.5°	2041.6	2055.9	1785.7	1691.9	1557.1
65°	1785.7	1800.6	1563.4	1285.7	1113.7
67.5°	1523.0	1537.9	1297.5	956.5	943.5
70°	1258.4	1136.6	984.5	796.9	803.1
72.5°	997.5	873.3	643.5	617.4	446.0
75°	752.2	659.0	500.0	336.0	326.7
77.5°	523.6	454.0	267.7	229.2	214.3
80°	324.8	228.0	160.2	142.2	136.6
82.5°	164.6	131.1	87.0	87.0	87.0
85°	67.1	47.8	49.1	53.4	54.0
87.5°	14.3	19.3	23.6	24.2	23.6
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)