

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-CL-UNV-L740-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-LD5-15HE-W-CL-UNV-L740-ED1-U
Description: METALUX HIGH BAY LINEAR LED
Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

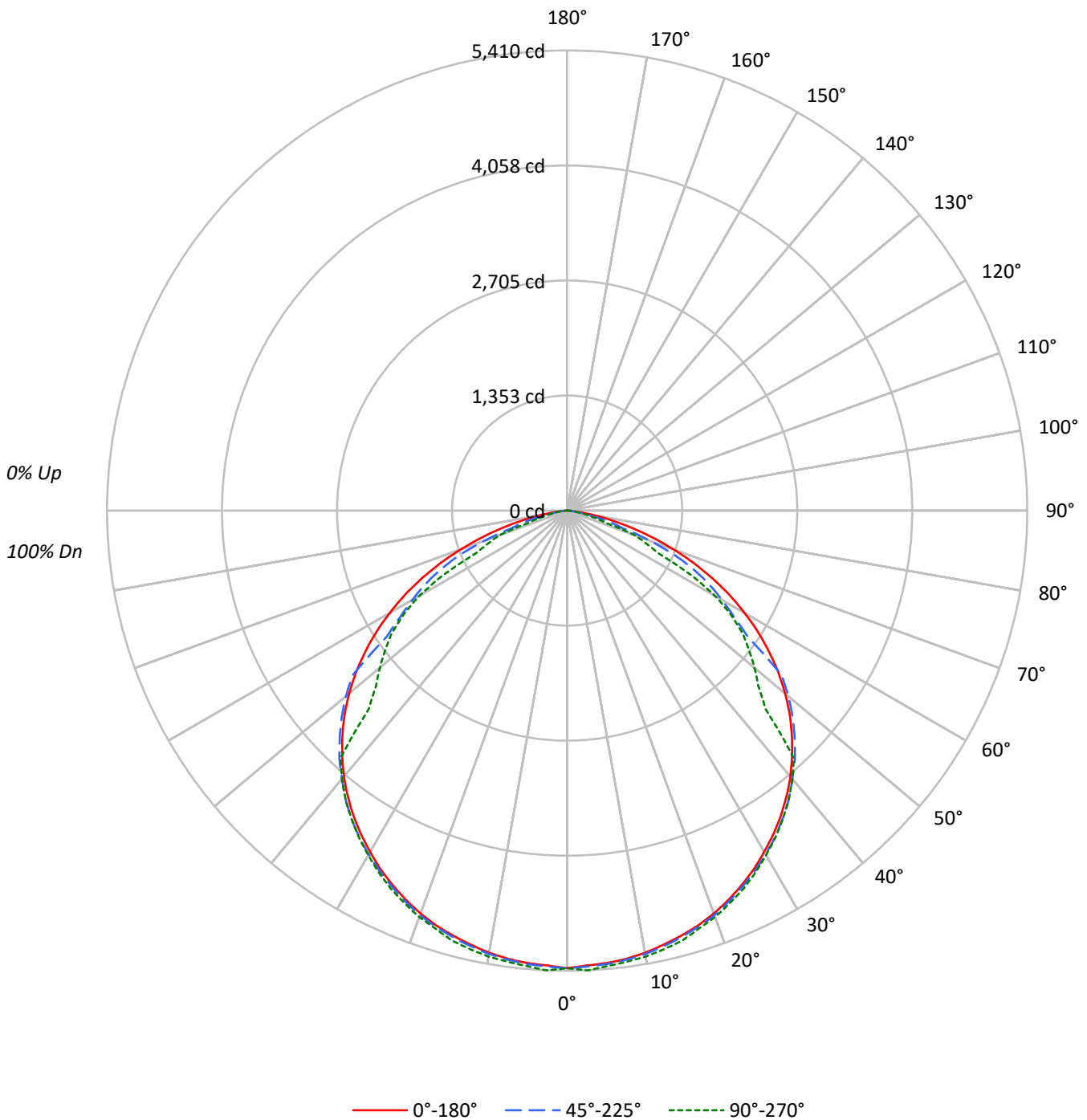
Lumens per Lamp: N/A
Luminaire Lumens: 14542.0 lumens
Efficiency: N/A
Efficacy: 158.4 lumens/watt
Spacing Criteria (0/90/45): 1.28 / 1.29 / 1.41
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

Input Watts (W): 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	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°	7237	7237	7237
5°	7211	7227	7262
10°	7210	7231	7273
15°	7210	7232	7290
20°	7219	7246	7280
25°	7211	7238	7282
30°	7197	7250	7266
35°	7194	7259	7265
40°	7171	7234	7234
45°	7110	7196	6270
50°	7000	7106	6016
55°	6801	6082	5909
60°	6482	5654	5398
65°	5995	5248	3739
70°	5220	4084	3331
75°	4123	2741	1791
80°	2654	1309	1117
85°	1091	798	880



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	510.2	3.5
10°-20°	1470.7	10.1
20°-30°	2254.8	15.5
30°-40°	2763.6	19.0
40°-50°	2841.2	19.5
50°-60°	2424.9	16.7
60°-70°	1603.1	11.0
70°-80°	593.9	4.1
80°-90°	79.4	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°	4235.8	29.1
0°-40°	6999.4	48.1
0°-60°	12265.5	84.3
0°-90°	14542.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	14542.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	5379	5379	5379	5379	5379	
5°	5339	5376	5351	5372	5377	508
15°	5176	5207	5192	5231	5234	1462
25°	4857	4883	4875	4919	4905	2239
35°	4380	4410	4420	4447	4423	2739
45°	3736	3774	3782	3776	3295	2879
55°	2899	2952	2593	2518	2519	2587
65°	1883	1899	1648	1356	1174	1857
75°	793	695	527	354	344	851
85°	71	50	52	56	57	117
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	5379.0	5379.0	5379.0	5379.0	5379.0
2.5°	5352.8	5386.2	5366.6	5391.5	5410.5
5°	5339.1	5376.4	5350.9	5371.8	5377.1
7.5°	5315.5	5350.2	5326.6	5354.1	5350.2
10°	5277.5	5309.0	5292.6	5321.4	5323.4
12.5°	5229.0	5260.5	5245.4	5280.8	5280.1
15°	5176.0	5207.4	5191.7	5231.0	5233.6
17.5°	5113.8	5142.6	5130.8	5166.8	5152.4
20°	5041.7	5066.6	5060.7	5094.8	5084.3
22.5°	4953.3	4978.9	4973.0	5012.3	4996.5
25°	4857.0	4882.6	4875.4	4919.3	4904.9
27.5°	4752.9	4777.1	4776.5	4817.7	4795.5
30°	4632.4	4664.5	4666.5	4703.1	4676.9
32.5°	4513.2	4543.3	4551.8	4578.7	4556.4
35°	4379.6	4409.7	4419.5	4447.0	4422.8
37.5°	4235.5	4261.0	4278.7	4299.0	4280.0
40°	4082.9	4105.8	4118.9	4143.8	4118.9
42.5°	3912.6	3945.4	3963.7	3981.4	3940.8
45°	3736.4	3773.8	3781.6	3775.7	3295.0
47.5°	3549.8	3590.4	3595.0	3135.2	3046.8
50°	3344.1	3395.2	3394.6	2897.5	2873.9
52.5°	3130.0	3179.1	3177.1	2711.5	2695.7
55°	2899.4	2952.5	2592.9	2517.6	2518.9
57.5°	2664.3	2702.3	2326.4	2329.6	2286.4
60°	2408.9	2444.9	2101.1	2080.7	2006.1
62.5°	2152.8	2167.9	1883.0	1784.1	1641.9
65°	1883.0	1898.7	1648.5	1355.7	1174.3
67.5°	1605.9	1621.6	1368.2	1008.6	994.9
70°	1326.9	1198.5	1038.1	840.3	846.8
72.5°	1051.8	920.8	678.5	651.0	470.2
75°	793.1	694.9	527.2	354.3	344.5
77.5°	552.1	478.8	282.3	241.7	226.0
80°	342.5	240.4	169.0	150.0	144.1
82.5°	173.6	138.2	91.7	91.7	91.7
85°	70.7	50.4	51.7	56.3	57.0
87.5°	15.1	20.3	24.9	25.5	24.9
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)