

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-L840-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-L840-ED1-U  
Description: METALUX HIGH BAY LINEAR LED  
Light Source: -  
Ballast/Driver: -

Luminaire Equipment: Sample No.    Condition    Description

**Summary**

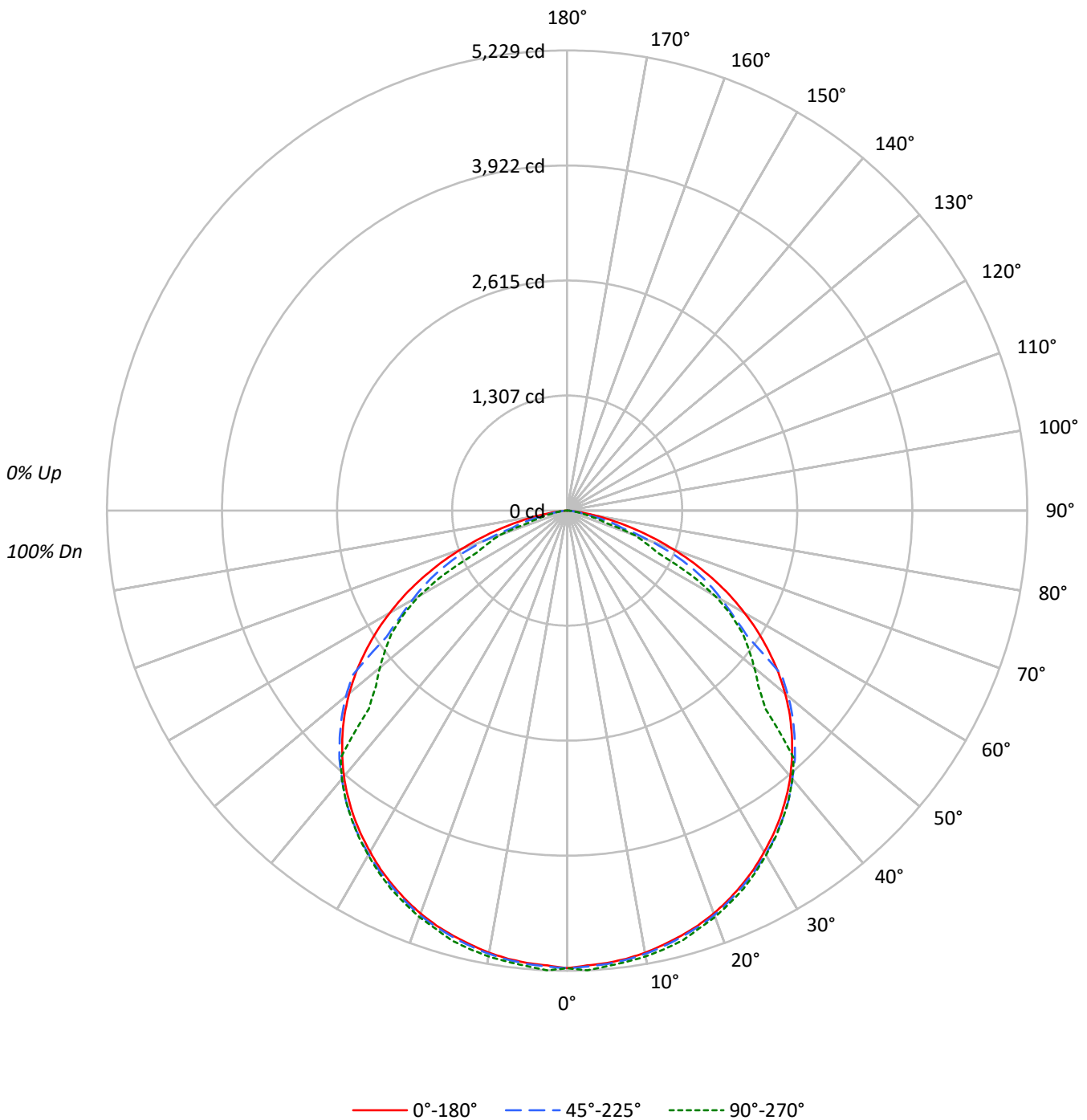
Lumens per Lamp: N/A  
Luminaire Lumens: 14055.0 lumens  
Efficiency: N/A  
Efficacy: 153.1 lumens/watt  
Spacing Criteria (0/90/45): 1.28 / 1.29 / 1.41  
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')  
CIE Type: Direct

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°	6995	6995	6995
5°	6970	6985	7019
10°	6969	6989	7029
15°	6969	6990	7046
20°	6977	7003	7036
25°	6969	6996	7038
30°	6956	7007	7023
35°	6953	7016	7021
40°	6931	6992	6992
45°	6872	6955	6060
50°	6765	6868	5814
55°	6574	5879	5711
60°	6265	5465	5218
65°	5794	5073	3613
70°	5045	3947	3220
75°	3985	2649	1731
80°	2565	1265	1079
85°	1056	772	851



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	493.2	3.5
10°-20°	1421.5	10.1
20°-30°	2179.3	15.5
30°-40°	2671.1	19.0
40°-50°	2746.1	19.5
50°-60°	2343.6	16.7
60°-70°	1549.4	11.0
70°-80°	574.1	4.1
80°-90°	76.8	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
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0°-30°	4093.9	29.1
0°-40°	6765.0	48.1
0°-60°	11854.8	84.3
0°-90°	14055.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	14055.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	5199	5199	5199	5199	5199	
5°	5160	5196	5172	5192	5197	491
15°	5003	5033	5018	5056	5058	1413
25°	4694	4719	4712	4754	4741	2164
35°	4233	4262	4272	4298	4275	2648
45°	3611	3647	3655	3649	3185	2783
55°	2802	2854	2506	2433	2434	2500
65°	1820	1835	1593	1310	1135	1794
75°	767	672	510	342	333	822
85°	68	49	50	54	55	113
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	5198.9	5198.9	5198.9	5198.9	5198.9
2.5°	5173.6	5205.9	5186.9	5210.9	5229.3
5°	5160.3	5196.4	5171.7	5191.9	5197.0
7.5°	5137.5	5171.0	5148.3	5174.8	5171.0
10°	5100.8	5131.2	5115.3	5143.2	5145.1
12.5°	5053.9	5084.3	5069.8	5103.9	5103.3
15°	5002.7	5033.0	5017.9	5055.8	5058.4
17.5°	4942.5	4970.4	4959.0	4993.8	4979.9
20°	4872.9	4896.9	4891.2	4924.2	4914.0
22.5°	4787.4	4812.1	4806.4	4844.4	4829.2
25°	4694.4	4719.1	4712.1	4754.5	4740.6
27.5°	4593.7	4617.2	4616.5	4656.4	4634.9
30°	4477.3	4508.3	4510.2	4545.6	4520.3
32.5°	4362.1	4391.2	4399.4	4425.4	4403.8
35°	4232.9	4262.0	4271.5	4298.1	4274.7
37.5°	4093.7	4118.3	4135.4	4155.1	4136.7
40°	3946.2	3968.3	3981.0	4005.0	3981.0
42.5°	3781.6	3813.2	3831.0	3848.1	3808.8
45°	3611.3	3647.4	3655.0	3649.3	3184.7
47.5°	3430.9	3470.1	3474.6	3030.2	2944.8
50°	3232.1	3281.5	3280.9	2800.4	2777.6
52.5°	3025.1	3072.6	3070.7	2620.7	2605.5
55°	2802.3	2853.6	2506.1	2433.3	2434.5
57.5°	2575.1	2611.8	2248.4	2251.6	2209.8
60°	2328.2	2363.0	2030.7	2011.1	1938.9
62.5°	2080.7	2095.3	1819.9	1724.3	1587.0
65°	1819.9	1835.1	1593.3	1310.3	1135.0
67.5°	1552.1	1567.3	1322.4	974.8	961.5
70°	1282.5	1158.4	1003.3	812.1	818.5
72.5°	1016.6	890.0	655.8	629.2	454.5
75°	766.6	671.6	509.6	342.5	333.0
77.5°	533.6	462.7	272.8	233.6	218.4
80°	331.1	232.3	163.3	145.0	139.3
82.5°	167.7	133.6	88.6	88.6	88.6
85°	68.4	48.7	50.0	54.4	55.1
87.5°	14.6	19.6	24.1	24.7	24.1
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)