

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-CLI-UNV-L835-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 (P23766)  
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-CLI-UNV-L835-ED1-U  
Description: METALUX HIGH BAY LINEAR LED  
Light Source: -  
Ballast/Driver: -

Luminaire Equipment: Sample No.    Condition    Description

**Summary**

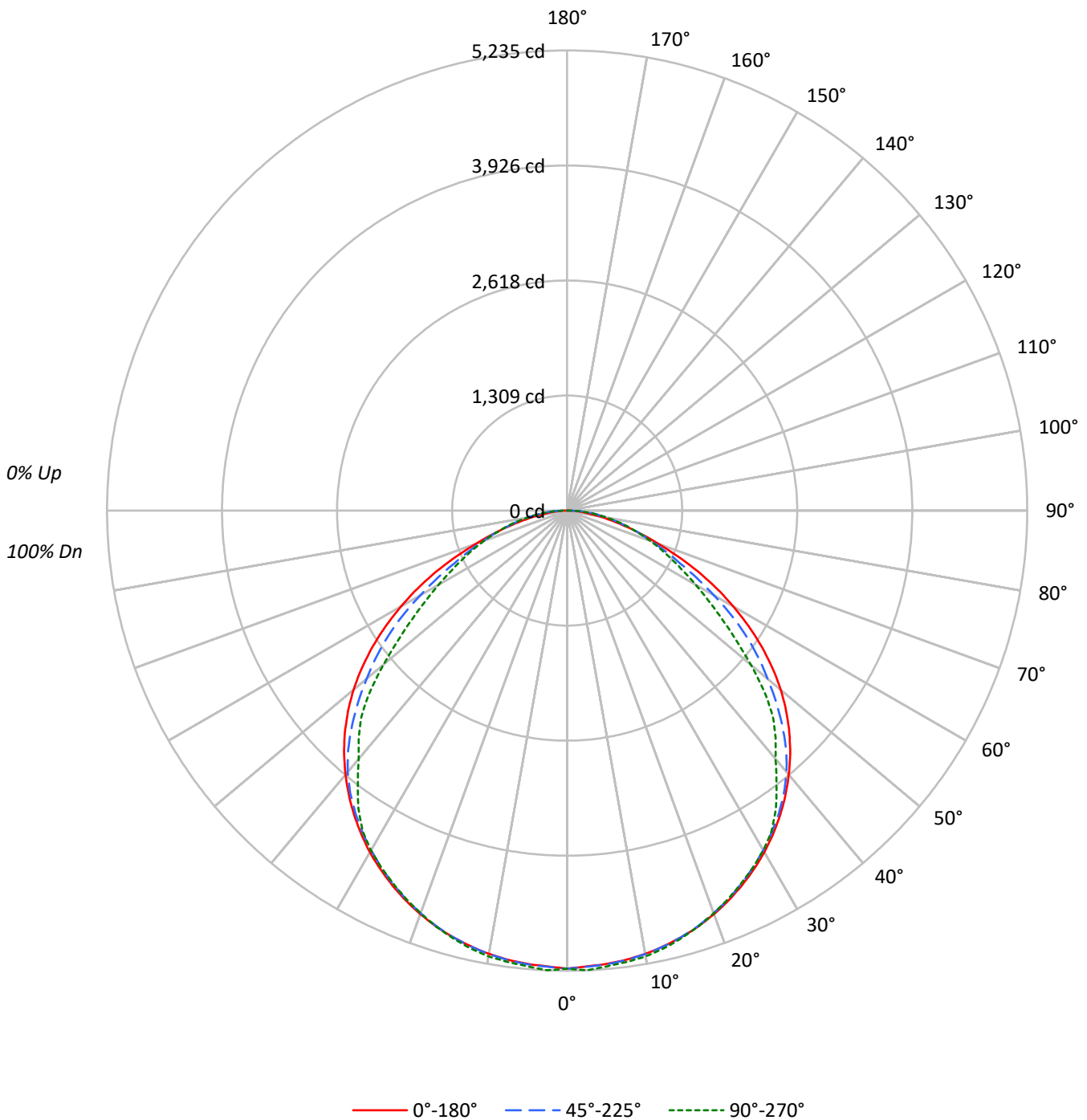
Lumens per Lamp: N/A  
Luminaire Lumens: 14000.0 lumens  
Efficiency: N/A  
Efficacy: 152.5 lumens/watt  
Spacing Criteria (0/90/45): 1.28 / 1.27 / 1.37  
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')  
CIE Type: Direct

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	109	105	101	97	107	102	99	95	98	95	92	94	92	90	91	89	87	85
2	100	92	85	80	97	90	84	79	86	81	77	83	79	75	80	77	74	71
3	91	81	73	67	89	79	72	66	77	70	65	74	68	64	71	67	63	61
4	84	72	64	57	81	71	63	57	68	61	56	66	60	55	64	59	54	52
5	77	65	56	49	75	63	55	49	61	54	48	59	53	48	58	52	47	45
6	71	58	49	43	69	57	49	43	55	48	43	54	47	42	52	46	42	40
7	66	53	44	38	64	52	44	38	50	43	38	49	42	37	48	42	37	35
8	62	48	40	34	60	48	40	34	46	39	34	45	38	34	44	38	33	31
9	58	44	36	31	56	44	36	31	43	35	30	41	35	30	40	35	30	28
10	54	41	33	28	53	40	33	28	39	32	28	38	32	28	38	32	27	26

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

	0°	45°	90°
0°	7011	7011	7011
5°	6992	6997	7029
10°	6996	7000	7036
15°	6997	6996	7013
20°	6995	6979	6981
25°	6985	6959	6950
30°	6973	6932	6935
35°	6941	6898	6800
40°	6891	6821	6477
45°	6804	6586	6298
50°	6640	6235	5704
55°	6338	5832	5043
60°	5882	5203	4549
65°	5228	4505	4182
70°	4339	4026	3942
75°	3509	3685	3730
80°	2787	3524	3509
85°	2183	3785	3612



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	494.2	3.5
10°-20°	1421.4	10.2
20°-30°	2167.5	15.5
30°-40°	2622.3	18.7
40°-50°	2656.1	19.0
50°-60°	2195.4	15.7
60°-70°	1450.0	10.4
70°-80°	756.1	5.4
80°-90°	237.0	1.7
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°	4083.1	29.2
0°-40°	6705.4	47.9
0°-60°	11556.9	82.5
0°-90°	14000.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	14000.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	5211	5211	5211	5211	5211	
5°	5177	5208	5181	5203	5204	492
15°	5023	5049	5023	5038	5034	1418
25°	4705	4724	4687	4699	4682	2169
35°	4226	4231	4199	4194	4140	2643
45°	3576	3566	3461	3354	3310	2753
55°	2702	2662	2486	2244	2150	2408
65°	1642	1594	1415	1323	1314	1622
75°	675	687	709	718	718	735
85°	141	182	245	243	234	172
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	5210.9	5210.9	5210.9	5210.9	5210.9
2.5°	5189.0	5219.6	5194.0	5216.5	5234.7
5°	5177.1	5208.4	5180.9	5203.4	5204.0
7.5°	5154.0	5185.2	5157.1	5179.6	5179.0
10°	5120.8	5150.2	5123.3	5150.2	5150.2
12.5°	5075.8	5104.5	5078.3	5103.3	5099.5
15°	5023.2	5048.9	5022.6	5038.2	5034.5
17.5°	4961.3	4984.4	4955.0	4968.2	4960.7
20°	4885.6	4906.9	4874.3	4891.2	4875.6
22.5°	4800.5	4820.5	4787.4	4799.9	4782.4
25°	4704.8	4723.6	4687.3	4699.2	4681.7
27.5°	4601.6	4618.5	4577.8	4592.2	4578.4
30°	4488.4	4496.5	4461.5	4480.2	4464.0
32.5°	4362.0	4367.0	4336.4	4353.2	4325.7
35°	4225.6	4231.3	4199.4	4193.7	4139.9
37.5°	4079.9	4082.4	4052.3	4001.7	3912.9
40°	3923.5	3922.2	3883.4	3766.5	3687.7
42.5°	3756.5	3755.8	3687.7	3554.4	3509.4
45°	3575.7	3566.3	3461.2	3353.6	3309.8
47.5°	3381.8	3371.7	3224.7	3139.0	3039.6
50°	3172.2	3154.7	2978.9	2861.9	2724.9
52.5°	2946.4	2919.5	2740.6	2551.6	2422.2
55°	2701.8	2661.7	2486.0	2244.5	2150.0
57.5°	2447.2	2387.7	2217.0	1981.8	1904.8
60°	2185.7	2119.4	1933.6	1740.3	1690.3
62.5°	1916.7	1851.0	1661.5	1515.7	1488.2
65°	1642.1	1594.5	1415.0	1323.1	1313.7
67.5°	1360.6	1343.7	1206.7	1159.8	1156.0
70°	1102.9	1099.7	1023.4	999.6	1002.1
72.5°	881.4	877.7	866.4	854.5	855.1
75°	675.0	686.9	708.8	718.1	717.5
77.5°	503.6	528.0	574.3	593.0	589.9
80°	359.7	396.0	454.8	472.3	452.9
82.5°	239.6	277.7	347.2	349.7	334.0
85°	141.4	182.0	245.2	243.3	234.0
87.5°	70.1	109.5	147.0	140.8	134.5
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)