

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-FLI-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 (P26703)  
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-FLI-UNV-L835-ED1-U  
Description: METALUX HIGH BAY LINEAR LED  
Light Source: -  
Ballast/Driver: -

Luminaire Equipment: Sample No.    Condition    Description

**Summary**

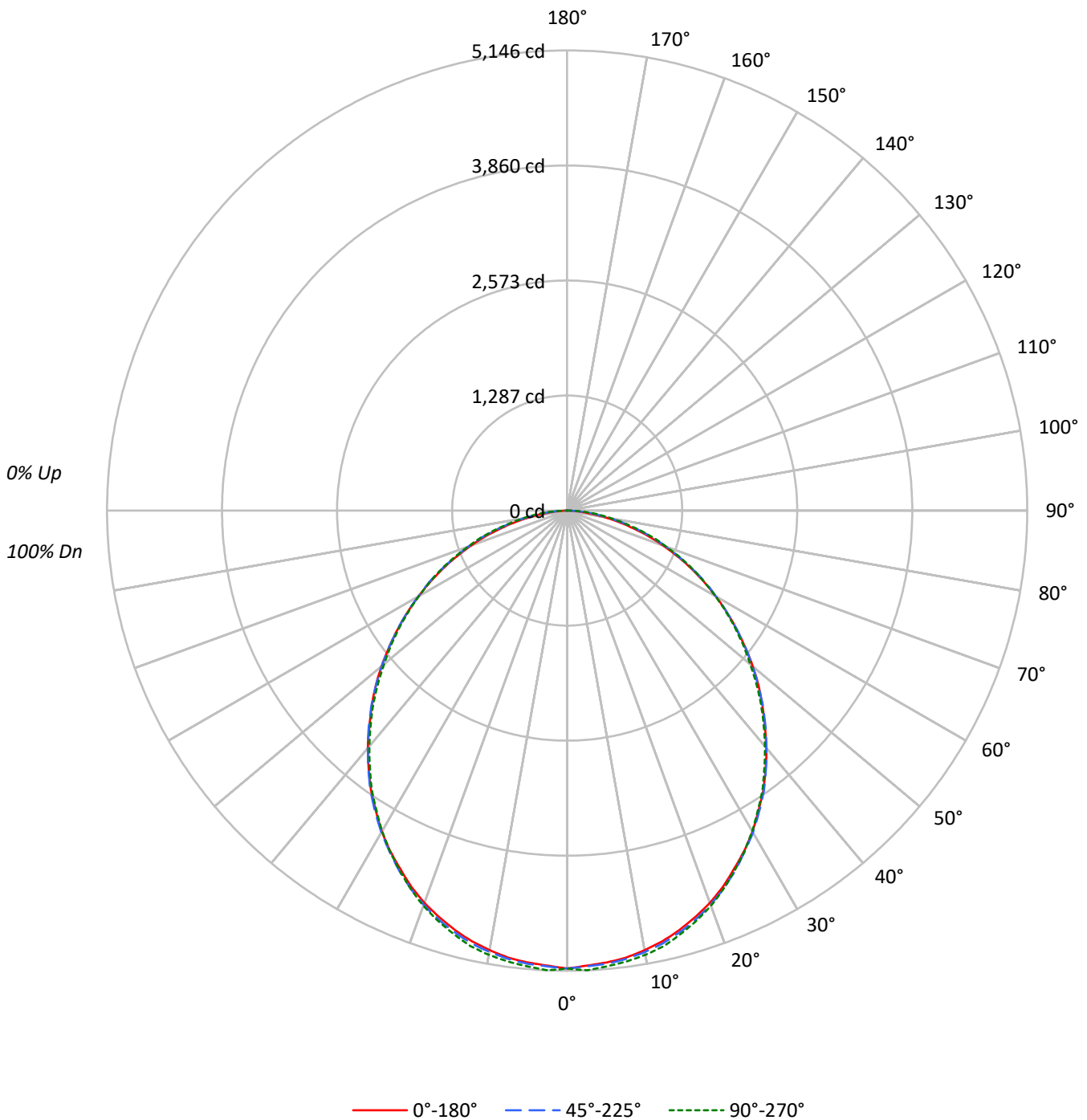
Lumens per Lamp: N/A  
Luminaire Lumens: 13377.0 lumens  
Efficiency: N/A  
Efficacy: 145.7 lumens/watt  
Spacing Criteria (0/90/45): 1.2 / 1.2 / 1.31  
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')  
CIE Type: Direct

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	104	100	96	106	102	98	95	98	95	92	94	91	89	90	88	86	84
2	99	91	85	79	97	89	83	78	86	81	76	83	78	74	80	76	73	71
3	91	80	72	66	88	79	71	65	76	69	64	73	68	63	71	66	62	60
4	83	71	63	56	81	70	62	56	68	61	55	65	59	54	63	58	53	51
5	77	64	55	49	75	63	54	48	61	53	48	59	52	47	57	51	47	45
6	71	58	49	42	69	57	48	42	55	47	42	53	47	42	52	46	41	39
7	66	52	44	38	64	52	43	38	50	43	37	49	42	37	47	41	37	35
8	61	48	39	34	60	47	39	34	46	39	33	45	38	33	43	37	33	31
9	57	44	36	30	56	43	36	30	42	35	30	41	35	30	40	34	30	28
10	54	41	33	28	52	40	33	28	39	32	27	38	32	27	37	31	27	25

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

	0°	45°	90°
0°	6890	6890	6890
5°	6851	6871	6910
10°	6820	6848	6892
15°	6760	6797	6830
20°	6684	6716	6735
25°	6560	6597	6587
30°	6439	6456	6430
35°	6279	6296	6255
40°	6091	6091	6044
45°	5878	5894	5834
50°	5676	5666	5595
55°	5430	5431	5382
60°	5167	5173	5153
65°	4870	4919	4931
70°	4498	4621	4626
75°	3975	4233	4299
80°	3261	3707	3916
85°	2262	3112	3520



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	484.3	3.6
10°-20°	1377.8	10.3
20°-30°	2047.5	15.3
30°-40°	2394.1	17.9
40°-50°	2386.9	17.8
50°-60°	2071.0	15.5
60°-70°	1529.7	11.4
70°-80°	856.5	6.4
80°-90°	228.5	1.7
90°-100°	0.7	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°	3909.6	29.2
0°-40°	6303.7	47.1
0°-60°	10761.7	80.4
0°-90°	13376.3	100.0
90°-120°	0.7	0.0
90°-150°	0.7	0.0
90°-180°	1.0	0.0
0°-180°	13377.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	5121	5121	5121	5121	5121	
5°	5073	5104	5087	5109	5116	482
15°	4853	4887	4879	4903	4903	1369
25°	4419	4454	4444	4454	4437	2037
35°	3823	3856	3833	3832	3808	2388
45°	3089	3122	3097	3085	3066	2385
55°	2315	2331	2315	2311	2294	2070
65°	1530	1545	1545	1553	1549	1513
75°	765	788	814	820	827	814
85°	146	177	202	220	228	178
90°	0	3	4	9	8	6
95°	0	0	0	0	0	0
105°	0	0	0	0	0	0
115°	0	0	0	0	0	0
125°	0	0	0	0	0	0
135°	0	0	0	0	0	0
145°	0	0	0	0	0	0
155°	0	0	0	0	0	0
165°	0	0	0	0	0	0
175°	0	0	0	0	0	0
180°	0	0	0	0	0	0



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	5121.1	5121.1	5121.1	5121.1	5121.1
2.5°	5093.1	5123.4	5102.2	5122.4	5145.8
5°	5072.6	5104.5	5086.9	5109.4	5115.9
7.5°	5042.6	5073.5	5056.6	5079.1	5085.9
10°	4991.8	5025.3	5012.0	5037.4	5044.6
12.5°	4932.5	4964.1	4955.3	4985.0	4989.9
15°	4853.1	4886.9	4879.4	4902.9	4903.2
17.5°	4765.1	4797.1	4791.5	4809.8	4809.1
20°	4667.8	4702.0	4690.2	4710.1	4703.9
22.5°	4552.5	4589.0	4574.3	4590.9	4575.3
25°	4418.6	4454.1	4443.7	4453.5	4437.2
27.5°	4289.0	4321.6	4300.1	4311.8	4294.6
30°	4144.4	4172.1	4155.5	4159.4	4138.6
32.5°	3981.9	4014.8	3994.6	3994.0	3971.8
35°	3823.0	3856.5	3832.8	3832.1	3808.3
37.5°	3647.1	3678.4	3650.4	3652.0	3624.3
40°	3467.7	3494.7	3467.7	3466.4	3441.0
42.5°	3272.9	3308.8	3284.0	3286.9	3253.1
45°	3088.9	3121.8	3097.4	3084.7	3065.8
47.5°	2905.6	2919.9	2899.7	2896.5	2869.8
50°	2711.5	2722.2	2706.9	2703.0	2673.1
52.5°	2510.9	2529.4	2509.9	2504.7	2484.8
55°	2314.8	2330.8	2315.2	2311.2	2294.3
57.5°	2117.5	2138.3	2122.4	2118.5	2104.8
60°	1920.1	1926.3	1922.4	1928.3	1914.9
62.5°	1724.1	1738.4	1743.0	1741.3	1730.9
65°	1529.7	1544.6	1545.0	1552.8	1548.9
67.5°	1330.7	1350.2	1355.7	1363.9	1367.5
70°	1143.4	1158.4	1174.7	1179.6	1176.0
72.5°	954.9	979.0	997.2	1001.4	1016.7
75°	764.7	787.5	814.2	820.0	826.9
77.5°	588.2	618.4	642.5	650.4	658.8
80°	420.8	454.3	478.4	489.1	505.4
82.5°	276.2	310.4	334.8	345.5	365.4
85°	146.5	177.2	201.6	219.5	228.0
87.5°	43.3	69.4	83.4	88.6	96.1
90°	0.0	3.3	3.9	8.8	8.1
92.5°	0.0	0.0	0.0	0.0	0.0
95°	0.0	0.0	0.0	0.0	0.0
97.5°	0.0	0.0	0.0	0.0	0.0
100°	0.0	0.0	0.0	0.0	0.0
102.5°	0.0	0.0	0.0	0.0	0.0
105°	0.0	0.0	0.0	0.0	0.0
107.5°	0.0	0.0	0.0	0.0	0.0
110°	0.0	0.0	0.0	0.0	0.0



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**CANDELA DISTRIBUTION (continued):**

	0°	22.5°	45°	67.5°	90°
112.5°	0.0	0.0	0.0	0.0	0.0
115°	0.0	0.0	0.0	0.0	0.0
117.5°	0.0	0.0	0.0	0.0	0.0
120°	0.0	0.0	0.0	0.0	0.0
122.5°	0.0	0.0	0.0	0.0	0.0
125°	0.0	0.0	0.0	0.0	0.0
127.5°	0.0	0.0	0.0	0.0	0.0
130°	0.0	0.0	0.0	0.0	0.0
132.5°	0.0	0.0	0.0	0.0	0.0
135°	0.0	0.0	0.0	0.0	0.0
137.5°	0.0	0.0	0.0	0.0	0.0
140°	0.0	0.0	0.0	0.0	0.0
142.5°	0.0	0.0	0.0	0.0	0.0
145°	0.0	0.0	0.0	0.0	0.0
147.5°	0.0	0.0	0.0	0.0	0.0
150°	0.0	0.0	0.0	0.0	0.0
152.5°	0.0	0.0	0.0	0.0	0.0
155°	0.0	0.0	0.0	0.0	0.0
157.5°	0.0	0.0	0.0	0.0	0.0
160°	0.0	0.0	0.0	0.0	0.0
162.5°	0.0	0.0	0.0	0.0	0.0
165°	0.0	0.0	0.0	0.0	0.0
167.5°	0.0	0.0	0.0	0.0	0.0
170°	0.0	0.0	0.0	0.0	0.0
172.5°	0.0	0.0	0.0	0.0	0.0
175°	0.0	0.0	0.0	0.0	0.0
177.5°	0.0	0.0	0.0	0.0	0.0
180°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)