

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-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 (P23760)  
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-UNV-L735-ED1-U  
Description: METALUX HIGH BAY LINEAR LED  
Light Source: -  
Ballast/Driver: -

Luminaire Equipment: Sample No.    Condition    Description

**Summary**

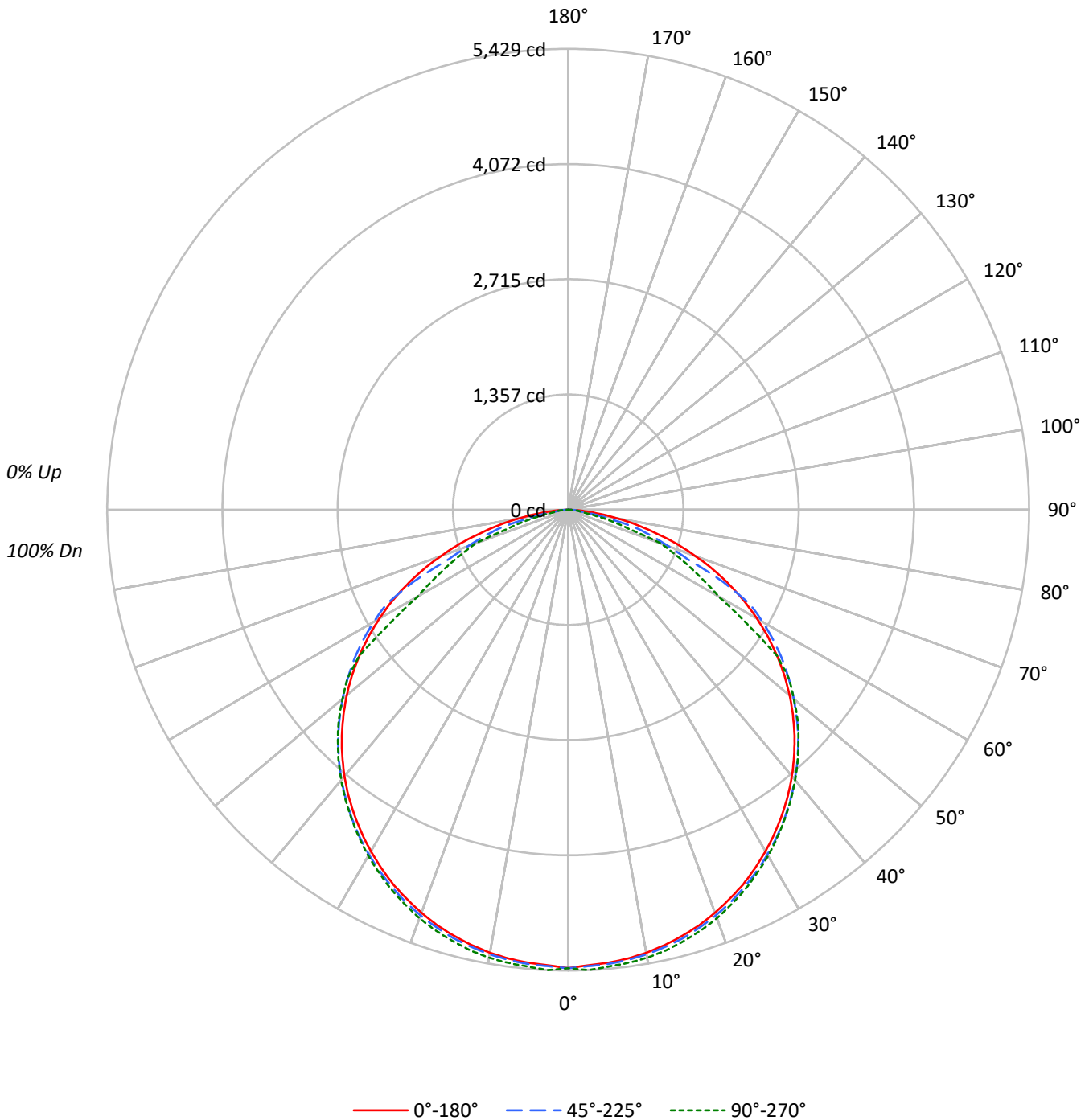
Lumens per Lamp: N/A  
Luminaire Lumens: 15592.0 lumens  
Efficiency: N/A  
Efficacy: 169.8 lumens/watt  
Spacing Criteria (0/90/45): 1.28 / 1.29 / 1.42  
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')  
CIE Type: Direct

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	89	91	89	87	85
2	99	91	85	79	97	90	83	78	86	81	76	83	78	75	80	76	73	71
3	91	80	72	66	88	79	71	65	76	69	64	73	68	63	70	66	62	60
4	83	71	62	56	81	70	62	55	67	60	55	65	59	54	63	57	53	51
5	76	63	54	48	74	62	54	48	60	53	47	58	52	47	56	51	46	44
6	70	57	48	42	68	56	48	42	54	47	41	53	46	41	51	45	40	38
7	65	52	43	37	63	51	43	37	49	42	36	48	41	36	46	40	36	34
8	61	47	39	33	59	46	38	33	45	38	32	44	37	32	43	37	32	30
9	57	43	35	29	55	43	35	29	41	34	29	40	34	29	39	33	29	27
10	53	40	32	27	52	39	32	27	38	31	26	37	31	26	36	30	26	24

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

	0°	45°	90°
0°	7267	7267	7267
5°	7237	7257	7298
10°	7241	7267	7321
15°	7239	7278	7328
20°	7235	7282	7333
25°	7233	7285	7325
30°	7220	7290	7318
35°	7211	7294	7304
40°	7198	7293	7305
45°	7171	7290	7299
50°	7128	7259	7258
55°	7045	7221	7042
60°	6914	7114	5510
65°	6683	6403	4964
70°	6261	4926	4575
75°	5544	4295	2851
80°	4565	2528	1275
85°	3009	1550	1669



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	512.5	3.3
10°-20°	1478.7	9.5
20°-30°	2267.0	14.5
30°-40°	2780.2	17.8
40°-50°	2952.1	18.9
50°-60°	2696.4	17.3
60°-70°	1877.8	12.0
70°-80°	875.8	5.6
80°-90°	151.5	1.0
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°	4258.2	27.3
0°-40°	7038.4	45.1
0°-60°	12686.9	81.4
0°-90°	15592.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	15592.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	5401	5401	5401	5401	5401	
5°	5358	5396	5373	5399	5404	510
15°	5197	5233	5225	5256	5261	1468
25°	4872	4915	4907	4943	4934	2245
35°	4390	4441	4441	4470	4446	2747
45°	3768	3826	3831	3856	3836	2906
55°	3003	3063	3078	3084	3002	2682
65°	2099	2164	2011	1599	1559	2071
75°	1066	1134	826	572	548	1140
85°	195	128	100	108	108	252
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	5400.9	5400.9	5400.9	5400.9	5400.9
2.5°	5372.4	5406.8	5384.1	5408.7	5429.4
5°	5358.2	5395.7	5373.1	5399.0	5403.5
7.5°	5334.9	5370.5	5349.8	5378.3	5385.4
10°	5299.9	5334.9	5318.7	5352.4	5358.8
12.5°	5252.6	5288.3	5276.0	5312.9	5317.4
15°	5197.0	5233.2	5224.8	5256.5	5261.1
17.5°	5131.6	5169.1	5159.4	5193.1	5196.3
20°	5053.2	5094.0	5085.6	5125.1	5121.2
22.5°	4965.1	5008.5	5002.1	5041.6	5029.9
25°	4871.9	4914.6	4906.9	4943.1	4934.1
27.5°	4762.5	4809.7	4802.6	4837.6	4823.3
30°	4647.2	4695.1	4692.5	4724.3	4710.0
32.5°	4522.9	4574.0	4571.5	4602.5	4580.5
35°	4390.2	4440.7	4440.7	4470.4	4446.5
37.5°	4249.6	4300.8	4301.4	4329.9	4307.3
40°	4098.1	4149.3	4152.5	4179.7	4159.0
42.5°	3938.8	3994.5	3997.1	4021.7	4002.3
45°	3768.5	3825.5	3831.3	3856.0	3835.9
47.5°	3590.5	3648.1	3653.3	3679.8	3665.6
50°	3405.3	3461.0	3468.1	3490.1	3467.4
52.5°	3209.7	3266.7	3276.4	3290.0	3279.7
55°	3003.2	3063.4	3078.3	3083.5	3001.9
57.5°	2789.5	2851.0	2865.3	2746.1	2483.9
60°	2569.3	2630.2	2643.8	2233.9	2047.4
62.5°	2340.1	2399.7	2414.6	1851.2	1791.7
65°	2099.2	2164.0	2011.2	1599.4	1559.2
67.5°	1851.9	1918.6	1521.0	1370.8	1346.8
70°	1591.6	1658.9	1252.3	1168.8	1162.9
72.5°	1341.7	1391.5	1027.6	885.8	745.9
75°	1066.5	1133.8	826.2	572.4	548.4
77.5°	826.9	714.9	498.6	419.6	330.9
80°	589.2	477.9	326.3	174.2	164.5
82.5°	373.6	312.1	128.2	131.4	137.3
85°	194.9	128.2	100.4	107.5	108.1
87.5°	62.8	55.0	60.2	59.6	58.9
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)