

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-A-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 (P23761)  
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-A-UNV-L740-ED1-U  
Description: METALUX HIGH BAY LINEAR LED  
Light Source: -  
Ballast/Driver: -

Luminaire Equipment: Sample No.    Condition    Description

**Summary**

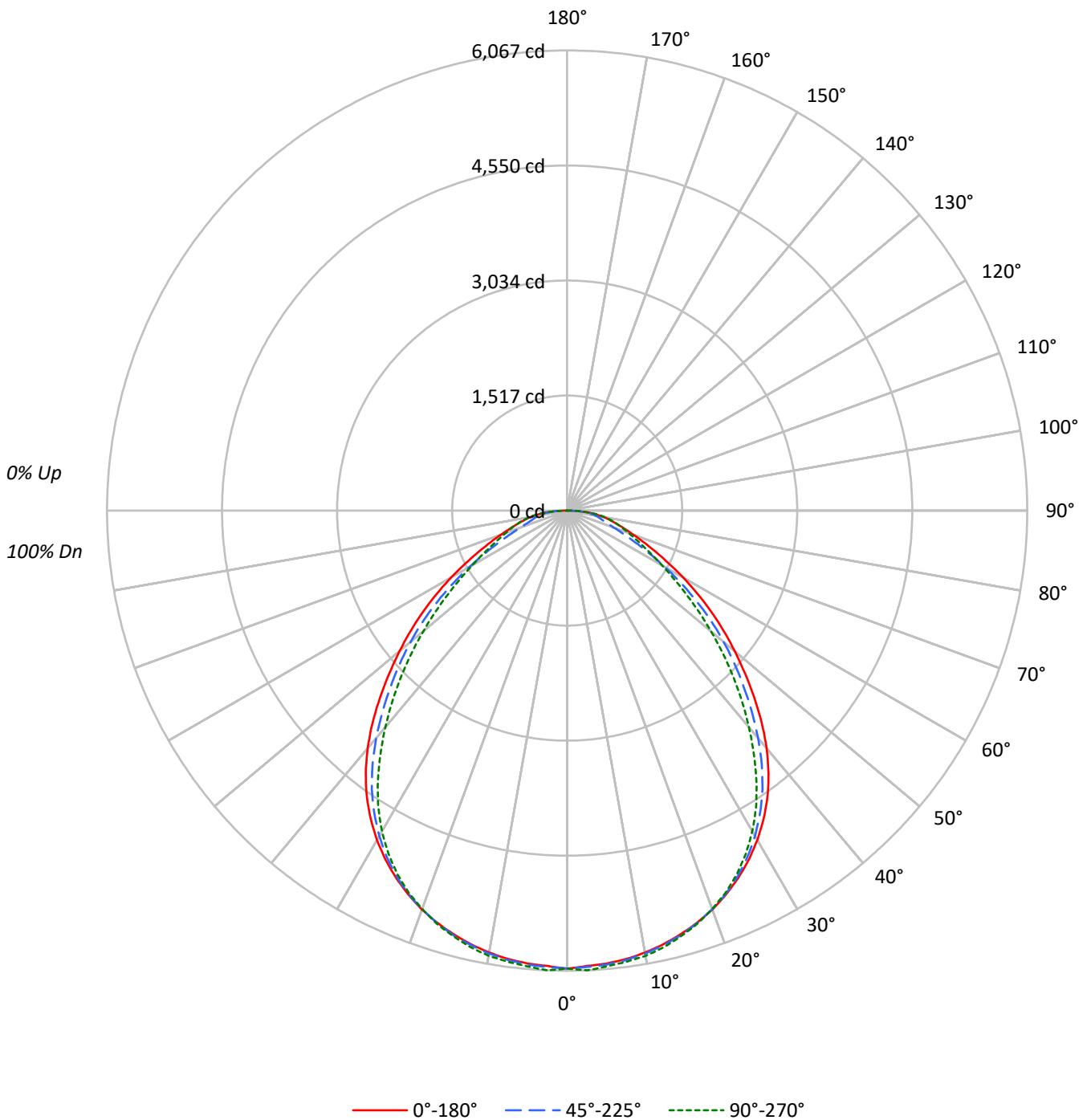
Lumens per Lamp: N/A  
Luminaire Lumens: 13870.0 lumens  
Efficiency: N/A  
Efficacy: 151.1 lumens/watt  
Spacing Criteria (0/90/45): 1.23 / 1.2 / 1.27  
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')  
CIE Type: Direct

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	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					100			
1	110	105	101	98	107	103	100	96	99	96	93	95	93	90	91	90	88	86					86			
2	101	93	87	82	98	91	86	81	88	83	79	85	81	77	82	78	75	73					73			
3	93	83	75	70	90	81	75	69	79	73	68	76	71	67	73	69	65	63					63			
4	85	74	66	60	83	73	65	60	71	64	59	68	63	58	66	61	57	55					55			
5	79	67	59	52	77	66	58	52	64	57	52	62	56	51	60	55	51	49					49			
6	73	61	52	46	72	60	52	46	58	51	46	56	50	45	55	49	45	43					43			
7	68	55	47	41	67	55	47	41	53	46	41	52	45	41	50	45	40	38					38			
8	64	51	43	37	62	50	42	37	49	42	37	48	41	37	47	41	36	35					35			
9	60	47	39	34	58	46	39	34	45	38	33	44	38	33	43	37	33	31					31			
10	56	43	36	31	55	43	36	31	42	35	31	41	35	30	40	34	30	29					29			

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

	0°	45°	90°
0°	8124	8124	8124
5°	8095	8113	8147
10°	8084	8102	8143
15°	8057	8073	8092
20°	8014	8009	8003
25°	7928	7900	7856
30°	7791	7696	7584
35°	7564	7374	7147
40°	7188	6879	6549
45°	6640	6270	5890
50°	6036	5646	5181
55°	5428	4888	4479
60°	4750	3994	3887
65°	4095	3141	3508
70°	3651	2564	3380
75°	3498	2503	3533
80°	3783	2960	3936
85°	4247	3563	4289



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	572.2	4.1
10°-20°	1637.7	11.8
20°-30°	2449.9	17.7
30°-40°	2795.1	20.2
40°-50°	2544.3	18.3
50°-60°	1868.2	13.5
60°-70°	1103.1	8.0
70°-80°	632.2	4.6
80°-90°	267.3	1.9
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°	4659.8	33.6
0°-40°	7454.9	53.7
0°-60°	11867.4	85.6
0°-90°	13870.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	13870.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	6038	6038	6038	6038	6038	
5°	5994	6031	6007	6031	6032	570
15°	5784	5816	5795	5816	5809	1632
25°	5340	5359	5322	5320	5292	2458
35°	4605	4583	4489	4412	4351	2869
45°	3490	3469	3295	3147	3096	2689
55°	2314	2207	2084	1932	1909	2069
65°	1286	1123	987	1055	1102	1294
75°	673	577	481	628	680	725
85°	275	254	231	272	278	288
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	6037.8	6037.8	6037.8	6037.8	6037.8
2.5°	6009.9	6044.7	6022.9	6046.7	6067.1
5°	5993.6	6031.0	6007.2	6031.0	6031.7
7.5°	5963.6	5998.4	5975.2	6001.1	5998.4
10°	5916.6	5951.4	5930.3	5958.2	5960.2
12.5°	5856.7	5890.1	5868.3	5900.3	5894.8
15°	5783.9	5815.9	5795.4	5815.9	5809.1
17.5°	5698.1	5727.3	5700.8	5723.3	5711.7
20°	5597.3	5621.8	5593.2	5614.3	5589.1
22.5°	5476.8	5498.5	5468.6	5480.2	5454.3
25°	5339.9	5359.0	5321.5	5319.5	5291.5
27.5°	5187.4	5197.6	5149.9	5133.6	5101.6
30°	5014.4	5017.1	4953.8	4923.2	4881.6
32.5°	4820.3	4813.5	4732.5	4686.9	4635.8
35°	4605.2	4582.7	4489.4	4412.5	4351.2
37.5°	4362.1	4326.7	4215.0	4101.3	4042.7
40°	4092.4	4050.9	3916.7	3775.8	3728.8
42.5°	3798.9	3763.5	3605.5	3458.5	3412.2
45°	3489.8	3469.4	3295.0	3147.3	3095.5
47.5°	3180.6	3165.7	2995.4	2844.9	2782.3
50°	2883.8	2851.1	2697.2	2532.4	2475.2
52.5°	2595.7	2529.0	2393.5	2224.6	2182.4
55°	2313.8	2206.9	2083.7	1932.5	1909.3
57.5°	2034.6	1896.4	1776.6	1663.5	1662.8
60°	1765.0	1607.0	1484.4	1425.2	1444.3
62.5°	1512.4	1350.3	1217.5	1221.6	1256.3
65°	1286.3	1122.9	986.7	1055.4	1101.8
67.5°	1092.2	936.3	798.1	926.1	970.3
70°	928.1	787.2	651.7	811.7	859.3
72.5°	789.9	671.4	549.5	716.3	764.7
75°	672.8	576.8	481.4	627.8	679.6
77.5°	577.4	492.3	431.7	543.4	597.2
80°	488.2	413.3	382.0	461.7	508.0
82.5°	386.8	335.0	316.6	375.2	399.0
85°	275.1	254.0	230.8	272.4	277.8
87.5°	151.2	156.6	129.4	156.6	157.3
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)