

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-LD5-30HE-N-UNV-L850-ED2-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 (P23767)  
Test Lab: INNOVATION CENTER P2  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: METALUX  
Catalog Number: HBLED-LD5-30HE-N-UNV-L850-ED2-U  
Description: METALUX HIGH BAY LINEAR LED  
Light Source: -  
Ballast/Driver: -

Luminaire Equipment: Sample No.    Condition    Description

**Summary**

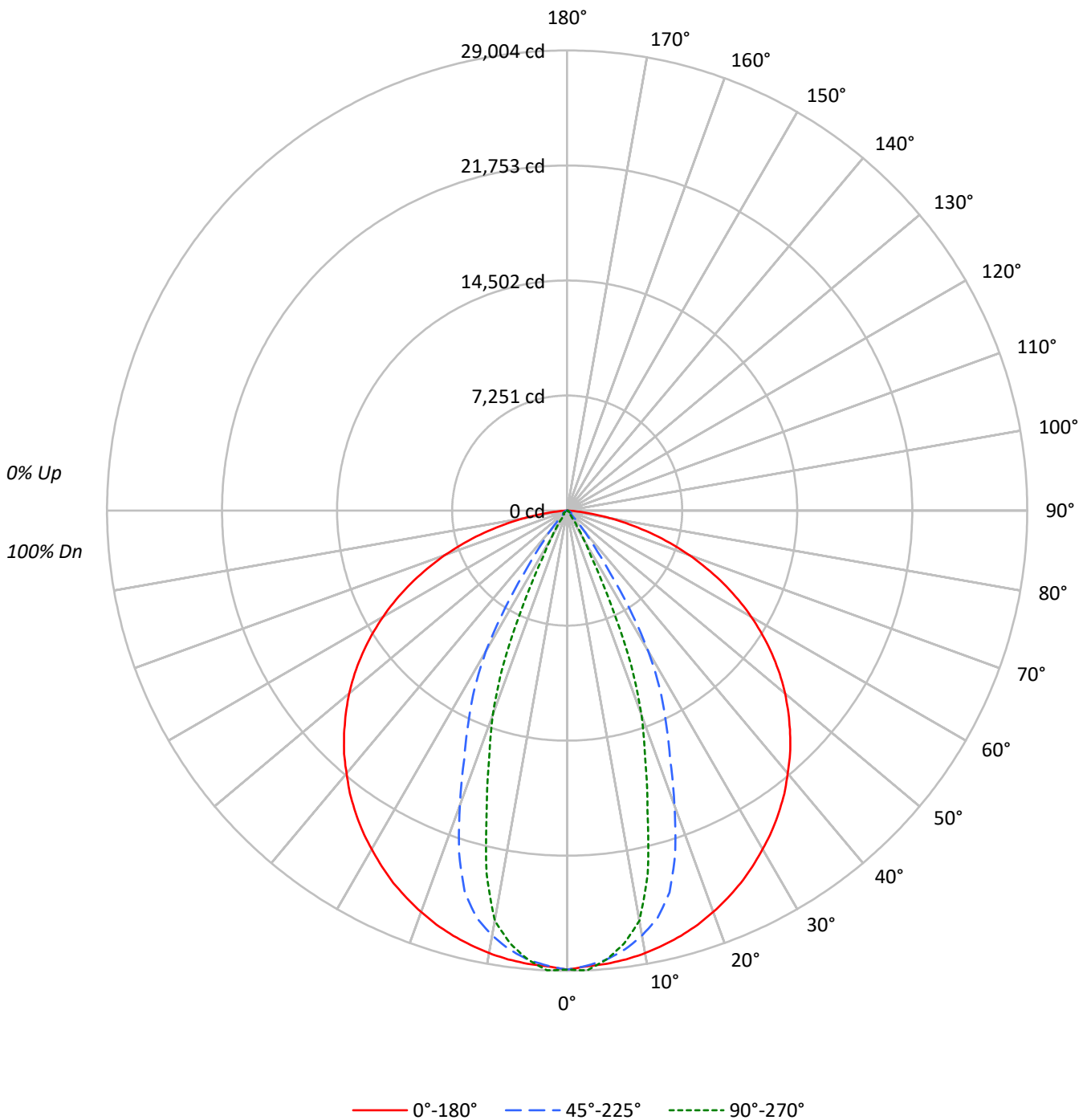
Lumens per Lamp: N/A  
Luminaire Lumens: 30753.0 lumens  
Efficiency: N/A  
Efficacy: 170.8 lumens/watt  
Spacing Criteria (0/90/45): 1.27 / 0.62 / 0.77  
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')  
CIE Type: Direct

Input Watts (W): 180  
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	112	108	105	102	109	106	103	101	102	100	98	98	96	95	95	93	92	90
2	105	98	93	89	102	97	92	88	93	89	86	90	87	84	87	85	82	81
3	98	90	84	79	96	88	83	78	86	81	77	83	79	76	81	77	74	73
4	92	82	76	70	90	81	75	70	79	73	69	77	72	68	75	71	67	66
5	86	76	69	64	84	75	68	63	73	67	63	71	66	62	70	65	62	60
6	81	70	63	58	79	70	63	58	68	62	58	66	61	57	65	60	57	55
7	76	66	58	54	75	65	58	53	63	57	53	62	57	53	61	56	52	51
8	72	61	54	49	71	61	54	49	59	53	49	58	53	49	57	52	49	47
9	68	57	51	46	67	57	50	46	56	50	46	55	49	46	54	49	45	44
10	65	54	47	43	64	53	47	43	53	47	43	52	46	43	51	46	42	41

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

	0°	45°	90°
0°	38930	38930	38930
5°	38722	38380	38363
10°	38698	37150	35847
15°	38643	34707	27281
20°	38553	28293	19637
25°	38455	21877	9674
30°	38285	15899	3137
35°	38194	7054	807
40°	37995	2865	544
45°	37825	804	579
50°	37530	570	642
55°	36989	678	274
60°	36076	756	167
65°	34592	482	197
70°	32137	428	244
75°	28114	322	336
80°	21021	394	480
85°	10411	509	638



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	2685.1	8.7
10°-20°	6714.1	21.8
20°-30°	7272.4	23.6
30°-40°	5385.5	17.5
40°-50°	3879.0	12.6
50°-60°	2401.8	7.8
60°-70°	1477.1	4.8
70°-80°	778.7	2.5
80°-90°	159.4	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
0°-30°	16671.6	54.2
0°-40°	22057.1	71.7
0°-60°	28337.9	92.1
0°-90°	30753.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	30753.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	28934	28934	28934	28934	28934	
5°	28670	28776	28416	28437	28404	###
15°	27742	27098	24916	21189	19585	7831
25°	25903	23727	14736	9270	6516	11935
35°	23253	16393	4294	1010	491	14548
45°	19878	9236	423	306	304	15330
55°	15768	1902	289	262	117	14076
65°	10866	201	151	96	62	10721
75°	5408	47	62	81	65	5712
85°	674	18	33	50	41	###
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	28933.8	28933.8	28933.8	28933.8	28933.8
2.5°	28748.0	28931.1	28715.0	28876.0	29004.0
5°	28669.5	28775.5	28416.3	28436.9	28403.9
7.5°	28531.9	28507.1	27902.9	27638.6	27523.0
10°	28324.1	28160.3	27191.3	26639.3	26237.4
12.5°	28055.7	27689.5	26303.5	24548.5	23458.4
15°	27741.8	27097.7	24916.0	21188.7	19585.1
17.5°	27367.4	26454.9	22647.7	17758.6	16327.1
20°	26925.6	25737.8	19760.0	15109.0	13714.7
22.5°	26432.9	24865.1	16954.8	12557.1	10568.2
25°	25902.9	23726.8	14736.0	9270.2	6516.0
27.5°	25290.4	22263.7	12654.8	5460.3	3325.4
30°	24642.1	20501.8	10233.7	2937.3	2019.2
32.5°	23988.3	18504.7	7241.4	1834.8	1145.2
35°	23253.3	16393.2	4294.4	1010.3	491.4
37.5°	22486.6	14458.0	2538.1	459.7	315.2
40°	21631.9	12689.3	1631.1	305.6	309.7
42.5°	20806.0	11040.3	918.1	301.4	306.9
45°	19878.3	9235.8	422.6	305.6	304.2
47.5°	18919.0	7365.2	273.9	308.3	308.3
50°	17929.3	5266.2	272.5	315.2	306.9
52.5°	16884.6	3285.5	283.5	313.8	251.9
55°	15768.3	1902.2	289.0	261.5	117.0
57.5°	14612.1	1121.8	291.8	150.0	66.1
60°	13406.4	620.8	280.8	111.5	61.9
62.5°	12163.5	295.9	221.6	104.6	60.6
65°	10865.5	201.0	151.4	96.3	61.9
67.5°	9518.0	155.5	119.7	90.8	63.3
70°	8169.1	115.6	108.7	90.8	61.9
72.5°	6798.2	78.5	90.8	92.2	61.9
75°	5408.0	46.8	61.9	81.2	64.7
77.5°	4030.2	28.9	48.2	84.0	78.5
80°	2712.9	24.8	50.9	78.5	61.9
82.5°	1592.5	22.0	49.6	60.6	49.6
85°	674.4	17.9	33.0	49.6	41.3
87.5°	126.6	15.1	26.2	39.9	35.8
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)