

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-LD5-30SE-W-AWG-UNV-L740-ED3-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 (P23764)  
Test Lab: INNOVATION CENTER P2  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: METALUX  
Catalog Number: HBLED-LD5-30SE-W-AWG-UNV-L740-ED3-U  
Description: METALUX HIGH BAY LINEAR LED  
Light Source: -  
Ballast/Driver: -

Luminaire Equipment: Sample No.    Condition    Description

**Summary**

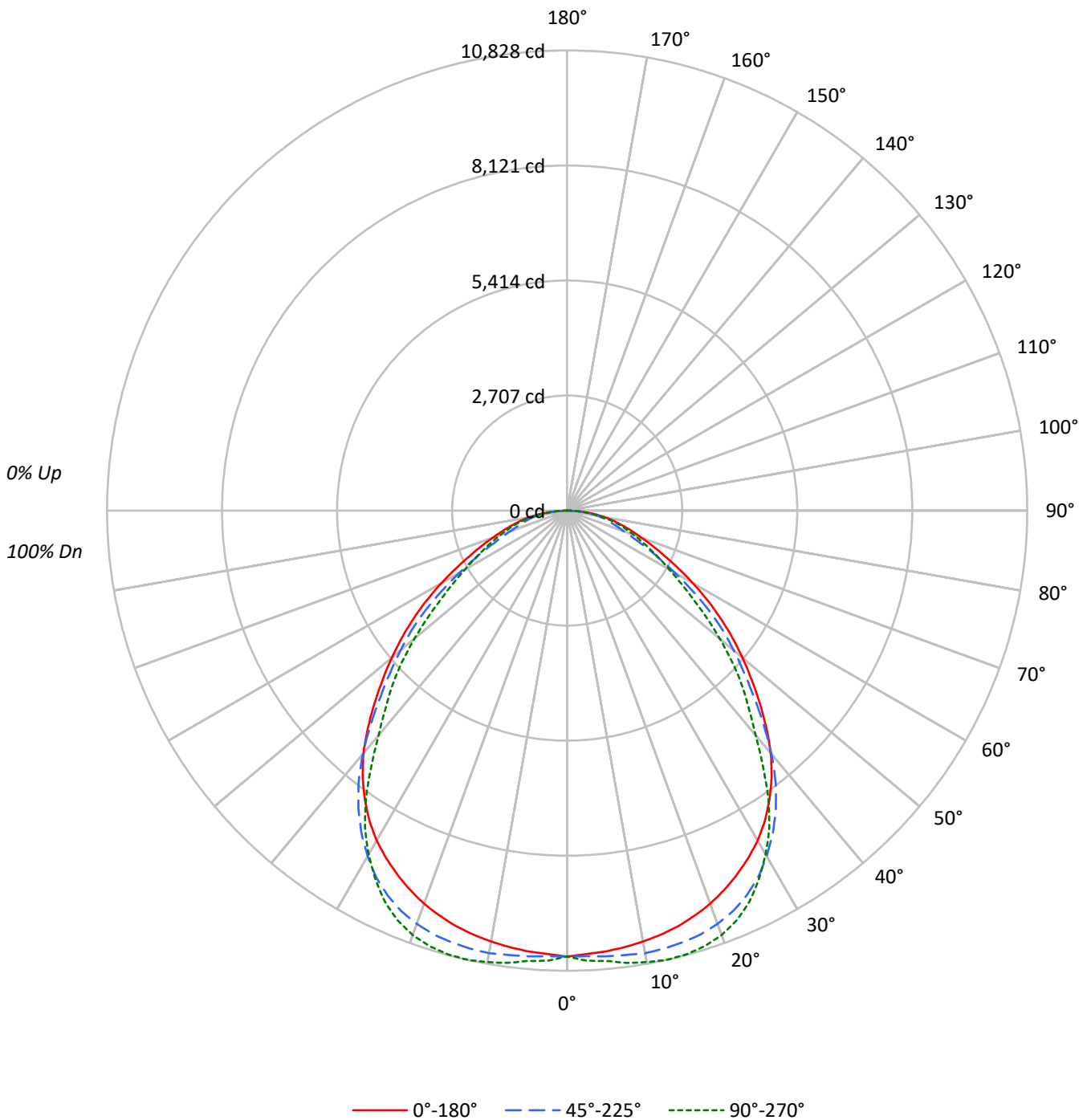
Lumens per Lamp: N/A  
Luminaire Lumens: 26012.0 lumens  
Efficiency: N/A  
Efficacy: 134.8 lumens/watt  
Spacing Criteria (0/90/45): 1.26 / 1.28 / 1.32  
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')  
CIE Type: Direct

Input Watts (W): 193  
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





TEST NUMBER: P#

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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				
2	101	93	87	82	98	91	85	81	88	83	79	85	81	77	82	78	75					73				
3	92	83	75	69	90	81	74	69	78	72	67	76	70	66	73	69	65					63				
4	85	74	66	60	83	73	65	59	70	64	58	68	62	58	66	61	57					55				
5	79	67	58	52	77	66	58	52	63	56	51	62	55	51	60	54	50					48				
6	73	60	52	46	71	59	51	46	58	51	45	56	50	45	54	49	44					42				
7	68	55	47	41	66	54	46	41	53	46	40	51	45	40	50	44	40					38				
8	63	50	42	37	62	50	42	37	48	41	36	47	41	36	46	40	36					34				
9	59	46	38	33	58	46	38	33	45	38	33	44	37	33	43	37	33					31				
10	56	43	35	30	54	42	35	30	41	35	30	40	34	30	40	34	30					28				

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

	0°	45°	90°
0°	14118	14118	14118
5°	14064	14221	14366
10°	14067	14449	14740
15°	14094	14650	15062
20°	14091	14817	15216
25°	14030	14837	15077
30°	13926	14590	14513
35°	13631	14062	13550
40°	13098	13136	12114
45°	12191	11843	11074
50°	11269	10709	9813
55°	10316	9491	8467
60°	9199	7877	7478
65°	8067	6483	6870
70°	7284	5584	6542
75°	6962	5474	6524
80°	7018	5795	6365
85°	6217	5308	5556



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	1008.0	3.9
10°-20°	2970.4	11.4
20°-30°	4556.2	17.5
30°-40°	5240.3	20.1
40°-50°	4779.6	18.4
50°-60°	3582.3	13.8
60°-70°	2203.6	8.5
70°-80°	1262.8	4.9
80°-90°	408.8	1.6
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°	8534.6	32.8
0°-40°	13775.0	53.0
0°-60°	22136.8	85.1
0°-90°	26012.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	26012.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	10493	10493	10493	10493	10493	
5°	10413	10518	10529	10616	10636	990
15°	10118	10343	10517	10742	10813	2856
25°	9451	9722	9994	10148	10156	4355
35°	8299	8461	8561	8421	8249	5176
45°	6407	6546	6224	5903	5820	4945
55°	4398	4234	4046	3688	3610	3929
65°	2534	2266	2036	2099	2158	2548
75°	1339	1200	1053	1205	1255	1432
85°	403	380	344	363	360	449
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	10493.0	10493.0	10493.0	10493.0	10493.0
2.5°	10443.5	10518.4	10494.4	10555.9	10601.4
5°	10412.8	10518.4	10529.2	10616.1	10636.2
7.5°	10360.6	10498.4	10546.5	10700.4	10735.2
10°	10296.4	10462.3	10576.0	10741.9	10788.7
12.5°	10218.8	10411.4	10555.9	10760.6	10827.5
15°	10118.4	10343.2	10517.1	10741.9	10812.8
17.5°	9991.3	10252.2	10455.6	10676.3	10749.9
20°	9841.5	10117.1	10348.5	10574.6	10626.8
22.5°	9660.9	9937.8	10201.4	10404.7	10432.8
25°	9450.8	9722.4	9994.0	10147.9	10155.9
27.5°	9222.0	9474.9	9729.1	9812.0	9775.9
30°	8963.8	9189.9	9390.6	9408.0	9341.1
32.5°	8657.4	8860.8	9004.0	8966.5	8854.1
35°	8298.9	8460.8	8561.1	8420.6	8249.4
37.5°	7905.6	8027.3	8060.8	7755.7	7560.4
40°	7457.4	7561.7	7478.8	7054.7	6896.8
42.5°	6940.9	7061.4	6848.6	6429.9	6333.5
45°	6407.1	6546.3	6223.8	5902.7	5819.8
47.5°	5884.0	6011.1	5645.9	5387.7	5264.6
50°	5383.6	5438.5	5116.1	4824.4	4687.9
52.5°	4891.3	4836.5	4607.7	4245.1	4124.7
55°	4397.6	4234.4	4045.8	3688.5	3609.6
57.5°	3902.6	3675.2	3469.1	3194.9	3164.1
60°	3418.3	3138.7	2927.3	2764.1	2778.8
62.5°	2956.7	2671.8	2445.7	2393.5	2449.7
65°	2534.0	2266.4	2036.3	2099.1	2158.0
67.5°	2182.1	1925.2	1691.1	1851.6	1898.5
70°	1851.6	1644.3	1419.5	1626.9	1663.0
72.5°	1588.1	1411.5	1216.1	1418.2	1448.9
75°	1339.2	1200.1	1052.9	1205.4	1254.9
77.5°	1122.5	1007.4	907.1	996.7	1050.2
80°	905.7	808.1	747.9	788.0	821.5
82.5°	663.6	600.7	556.6	574.0	579.3
85°	402.7	380.0	343.8	362.6	359.9
87.5°	132.5	151.2	159.2	143.2	135.1
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)