

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-UNV-L840-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 (P23760)  
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-UNV-L840-ED3-U  
Description: METALUX HIGH BAY LINEAR LED  
Light Source: -  
Ballast/Driver: -

Luminaire Equipment: Sample No.    Condition    Description

**Summary**

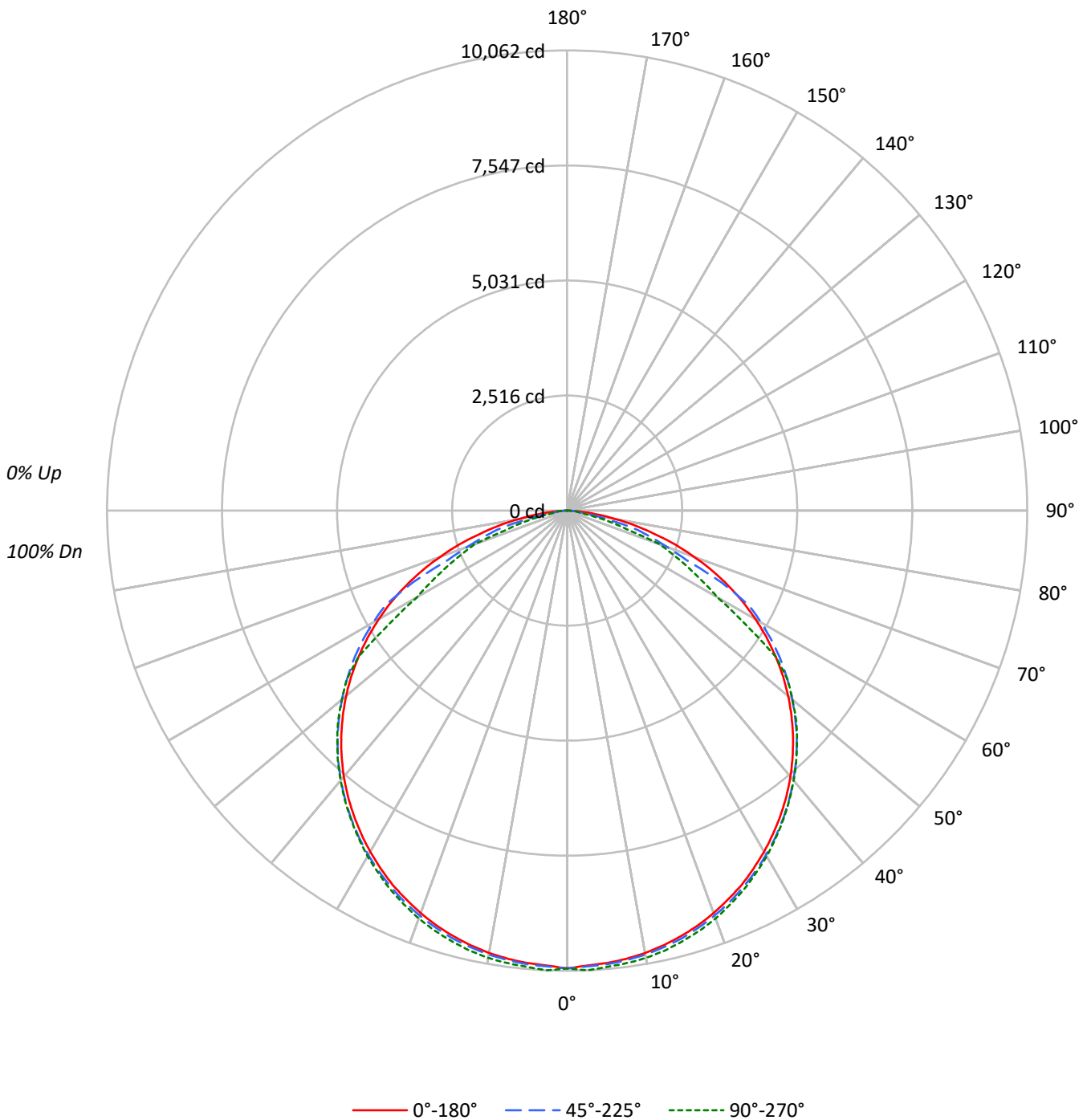
Lumens per Lamp: N/A  
Luminaire Lumens: 28897.0 lumens  
Efficiency: N/A  
Efficacy: 149.7 lumens/watt  
Spacing Criteria (0/90/45): 1.28 / 1.29 / 1.42  
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')  
CIE Type: Direct

Input Watts (W): 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





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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°	13468	13468	13468
5°	13412	13450	13526
10°	13420	13467	13569
15°	13416	13488	13582
20°	13409	13495	13590
25°	13405	13501	13576
30°	13381	13512	13562
35°	13364	13518	13536
40°	13340	13517	13538
45°	13290	13511	13527
50°	13210	13454	13452
55°	13056	13383	13051
60°	12814	13185	10211
65°	12386	11867	9200
70°	11604	9130	8479
75°	10275	7961	5284
80°	8461	4686	2362
85°	5576	2871	3094



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	949.9	3.3
10°-20°	2740.4	9.5
20°-30°	4201.4	14.5
30°-40°	5152.6	17.8
40°-50°	5471.2	18.9
50°-60°	4997.3	17.3
60°-70°	3480.1	12.0
70°-80°	1623.1	5.6
80°-90°	280.8	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°	7891.7	27.3
0°-40°	13044.4	45.1
0°-60°	23512.9	81.4
0°-90°	28897.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	28897.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	10010	10010	10010	10010	10010	
5°	9930	10000	9958	10006	10014	945
15°	9632	9699	9683	9742	9750	2720
25°	9029	9108	9094	9161	9144	4161
35°	8136	8230	8230	8285	8241	5091
45°	6984	7090	7101	7146	7109	5387
55°	5566	5678	5705	5715	5564	4971
65°	3891	4011	3727	2964	2890	3839
75°	1976	2101	1531	1061	1016	2113
85°	361	238	186	199	200	467
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	10009.7	10009.7	10009.7	10009.7	10009.7
2.5°	9956.9	10020.5	9978.5	10024.1	10062.5
5°	9930.5	10000.1	9958.1	10006.1	10014.5
7.5°	9887.3	9953.3	9914.9	9967.7	9980.9
10°	9822.4	9887.3	9857.3	9919.7	9931.7
12.5°	9734.8	9800.8	9778.0	9846.5	9854.9
15°	9631.6	9698.8	9683.2	9742.0	9750.4
17.5°	9510.4	9580.0	9562.0	9624.4	9630.4
20°	9365.2	9440.8	9425.2	9498.4	9491.2
22.5°	9202.0	9282.4	9270.4	9343.6	9322.0
25°	9029.2	9108.4	9094.0	9161.2	9144.4
27.5°	8826.4	8914.0	8900.8	8965.6	8939.2
30°	8612.8	8701.6	8696.8	8755.6	8729.2
32.5°	8382.4	8477.2	8472.4	8530.0	8489.2
35°	8136.4	8230.0	8230.0	8285.2	8240.8
37.5°	7876.0	7970.8	7972.0	8024.8	7982.8
40°	7595.1	7690.0	7696.0	7746.4	7708.0
42.5°	7299.9	7403.1	7407.9	7453.5	7417.5
45°	6984.3	7089.9	7100.7	7146.3	7109.1
47.5°	6654.3	6761.1	6770.7	6819.9	6793.5
50°	6311.1	6414.3	6427.5	6468.3	6426.3
52.5°	5948.7	6054.3	6072.3	6097.5	6078.3
55°	5565.9	5677.5	5705.1	5714.7	5563.5
57.5°	5169.8	5283.8	5310.2	5089.4	4603.4
60°	4761.8	4874.6	4899.8	4140.2	3794.6
62.5°	4337.0	4447.4	4475.0	3431.0	3320.6
65°	3890.6	4010.6	3727.4	2964.1	2889.7
67.5°	3432.2	3555.8	2818.9	2540.5	2496.1
70°	2949.7	3074.5	2320.9	2166.1	2155.3
72.5°	2486.5	2578.9	1904.5	1641.7	1382.5
75°	1976.5	2101.3	1531.3	1060.8	1016.4
77.5°	1532.5	1324.9	924.0	777.6	613.2
80°	1092.0	885.6	604.8	322.8	304.8
82.5°	692.4	578.4	237.6	243.6	254.4
85°	361.2	237.6	186.0	199.2	200.4
87.5°	116.4	102.0	111.6	110.4	109.2
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)