

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-CLI-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 (P23766)  
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-CLI-UNV-L840-ED3-U  
Description: METALUX HIGH BAY LINEAR LED  
Light Source: -  
Ballast/Driver: -

Luminaire Equipment: Sample No.    Condition    Description

**Summary**

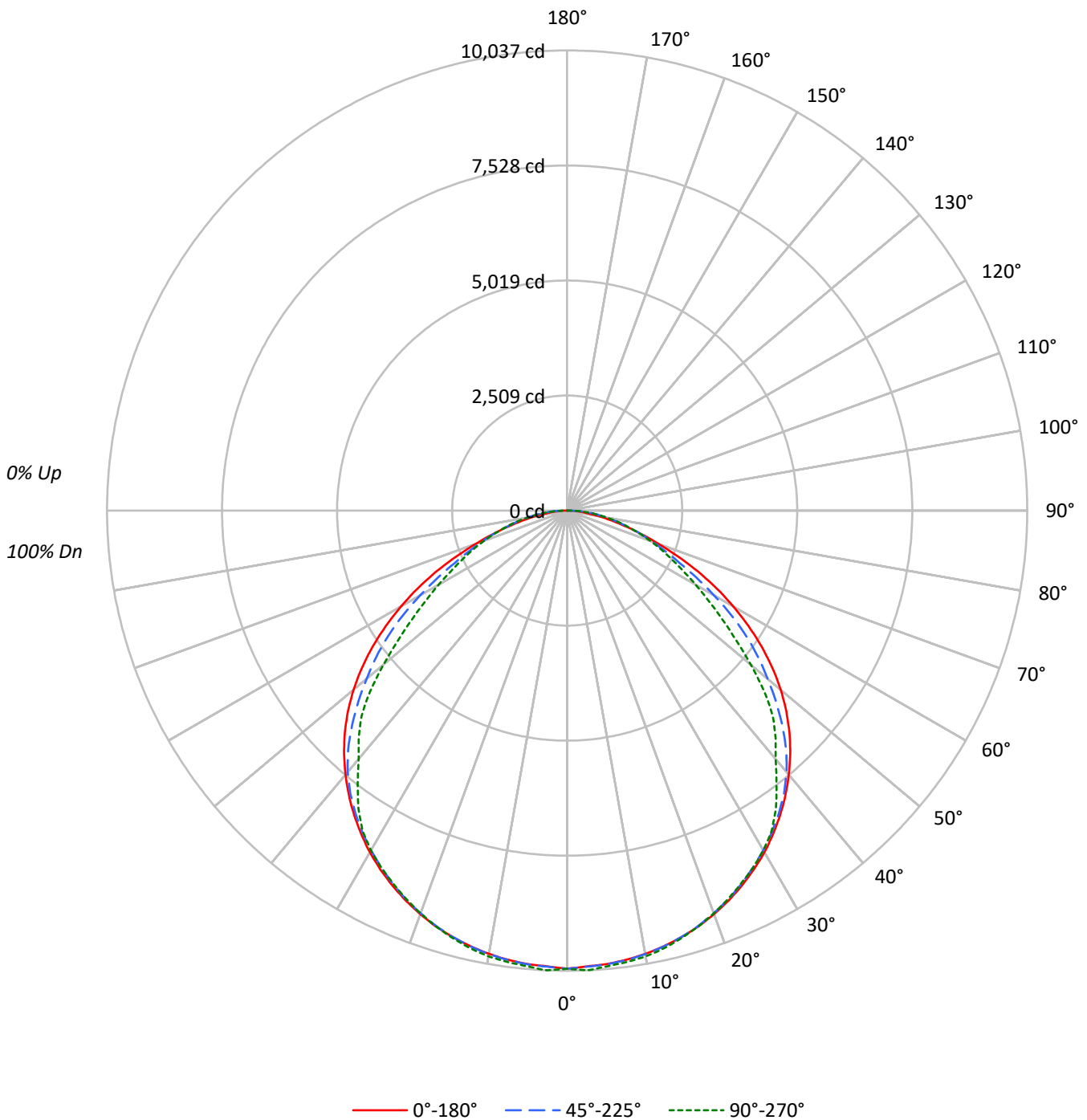
Lumens per Lamp: N/A  
Luminaire Lumens: 26845.0 lumens  
Efficiency: N/A  
Efficacy: 139.1 lumens/watt  
Spacing Criteria (0/90/45): 1.28 / 1.27 / 1.37  
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')  
CIE Type: Direct

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	90	91	89	87	85
2	100	92	85	80	97	90	84	79	86	81	77	83	79	75	80	77	74	71
3	91	81	73	67	89	79	72	66	77	70	65	74	68	64	71	67	63	61
4	84	72	64	57	81	71	63	57	68	61	56	66	60	55	64	59	54	52
5	77	65	56	49	75	63	55	49	61	54	48	59	53	48	58	52	47	45
6	71	58	49	43	69	57	49	43	55	48	43	54	47	42	52	46	42	40
7	66	53	44	38	64	52	44	38	50	43	38	49	42	37	48	42	37	35
8	62	48	40	34	60	48	40	34	46	39	34	45	38	34	44	38	33	31
9	58	44	36	31	56	44	36	31	43	35	30	41	35	30	40	35	30	28
10	54	41	33	28	53	40	33	28	39	32	28	38	32	28	38	32	27	26

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

	0°	45°	90°
0°	13444	13444	13444
5°	13408	13418	13478
10°	13415	13422	13492
15°	13417	13415	13447
20°	13414	13383	13386
25°	13393	13343	13327
30°	13371	13291	13299
35°	13309	13226	13039
40°	13214	13079	12420
45°	13046	12629	12076
50°	12732	11956	10937
55°	12153	11182	9671
60°	11278	9977	8722
65°	10025	8638	8020
70°	8319	7720	7559
75°	6729	7065	7152
80°	5344	6757	6729
85°	4185	7259	6925



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	947.6	3.5
10°-20°	2725.6	10.2
20°-30°	4156.1	15.5
30°-40°	5028.3	18.7
40°-50°	5093.2	19.0
50°-60°	4209.6	15.7
60°-70°	2780.4	10.4
70°-80°	1449.8	5.4
80°-90°	454.5	1.7
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°	7829.3	29.2
0°-40°	12857.5	47.9
0°-60°	22160.3	82.5
0°-90°	26845.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	26845.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	9992	9992	9992	9992	9992	
5°	9927	9987	9934	9978	9979	944
15°	9632	9681	9631	9661	9654	2720
25°	9022	9057	8988	9011	8977	4160
35°	8103	8113	8052	8042	7938	5068
45°	6856	6838	6637	6430	6347	5279
55°	5181	5104	4767	4304	4123	4618
65°	3149	3058	2713	2537	2519	3110
75°	1294	1317	1359	1377	1376	1410
85°	271	349	470	467	449	329
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	9991.9	9991.9	9991.9	9991.9	9991.9
2.5°	9949.9	10008.7	9959.5	10002.7	10037.4
5°	9927.1	9987.1	9934.3	9977.5	9978.7
7.5°	9882.7	9942.7	9888.7	9931.9	9930.7
10°	9819.1	9875.5	9823.9	9875.5	9875.5
12.5°	9732.8	9787.9	9737.6	9785.5	9778.3
15°	9632.0	9681.2	9630.8	9660.8	9653.6
17.5°	9513.3	9557.6	9501.3	9526.5	9512.1
20°	9368.1	9408.9	9346.5	9378.9	9348.9
22.5°	9205.0	9243.4	9179.8	9203.8	9170.2
25°	9021.5	9057.4	8987.9	9010.7	8977.1
27.5°	8823.5	8855.9	8778.0	8805.6	8779.2
30°	8606.4	8622.0	8554.9	8590.8	8559.7
32.5°	8364.1	8373.7	8315.0	8347.3	8294.6
35°	8102.6	8113.4	8052.3	8041.5	7938.3
37.5°	7823.2	7828.0	7770.4	7673.2	7502.9
40°	7523.3	7520.9	7446.5	7222.2	7071.1
42.5°	7203.0	7201.8	7071.1	6815.6	6729.2
45°	6856.4	6838.4	6636.9	6430.5	6346.6
47.5°	6484.5	6465.3	6183.4	6019.1	5828.4
50°	6082.7	6049.1	5712.0	5487.7	5225.0
52.5°	5649.7	5598.1	5255.0	4892.8	4644.5
55°	5180.7	5103.9	4766.8	4303.8	4122.7
57.5°	4692.5	4578.5	4251.0	3800.0	3652.5
60°	4191.1	4063.9	3707.7	3337.0	3241.1
62.5°	3675.3	3549.3	3185.9	2906.4	2853.6
65°	3148.7	3057.5	2713.3	2536.9	2519.0
67.5°	2608.9	2576.5	2313.8	2223.9	2216.7
70°	2114.7	2108.7	1962.4	1916.8	1921.6
72.5°	1690.1	1682.9	1661.3	1638.5	1639.7
75°	1294.3	1317.1	1359.0	1377.0	1375.8
77.5°	965.6	1012.4	1101.1	1137.1	1131.1
80°	689.7	759.3	872.0	905.6	868.4
82.5°	459.4	532.6	665.7	670.5	640.5
85°	271.1	349.1	470.2	466.6	448.6
87.5°	134.3	209.9	281.9	269.9	257.9
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)