

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-CLWG-UNV-L835-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 (P33385)  
Test Lab: INNOVATION CENTER-P3  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: METALUX  
Catalog Number: HBLED-LD5-30SE-W-CLWG-UNV-L835-ED3-U  
Description: METALUX HIGH BAY LINEAR LED  
WIDE DISTRIBUTION WITH CLEAR LENS, WIREGUARD & DOORFRAME  
Light Source: -  
Ballast/Driver: -

Luminaire Equipment: Sample No.    Condition    Description

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 26040.0 lumens  
Efficiency: N/A  
Efficacy: 134.9 lumens/watt  
Spacing Criteria (0/90/45): 1.27 / 1.3 / 1.33  
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')  
CIE Type: Direct

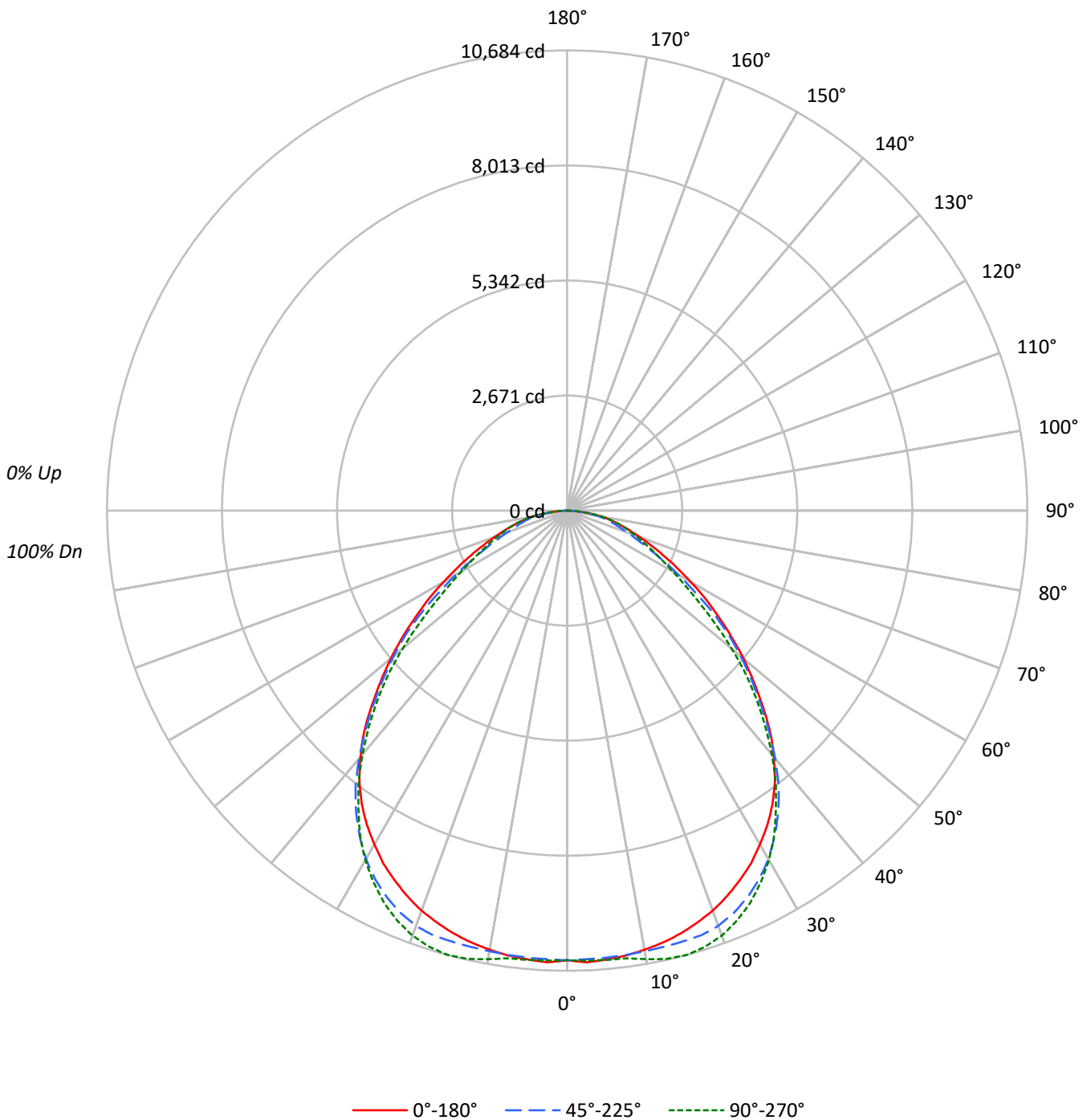
Input Watts (W): 193  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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	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	102	98	107	103	100	96	99	96	93	95	93	91	92	90	88					86				
2	101	93	87	82	98	91	86	81	88	83	79	85	81	77	82	78	75					73				
3	92	83	75	69	90	81	74	68	78	72	67	76	70	66	73	69	65					63				
4	85	74	66	59	83	73	65	59	70	64	58	68	62	57	66	61	57					55				
5	79	67	58	52	77	65	57	52	63	56	51	61	55	50	60	54	50					48				
6	73	60	52	46	71	59	51	45	58	50	45	56	50	45	54	49	44					42				
7	68	55	46	41	66	54	46	40	53	45	40	51	45	40	50	44	40					38				
8	63	50	42	36	62	50	42	36	48	41	36	47	41	36	46	40	36					34				
9	59	46	38	33	58	46	38	33	45	38	33	43	37	33	42	37	32					31				
10	56	43	35	30	54	42	35	30	41	34	30	40	34	30	39	34	30					28				

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

	0°	45°	90°
0°	14049	14049	14049
5°	14131	14073	14142
10°	14144	14192	14446
15°	14162	14428	14882
20°	14152	14692	15035
25°	14066	14705	14921
30°	13904	14511	14557
35°	13656	14040	13872
40°	13117	13198	12989
45°	12222	12094	11848
50°	11190	11010	10446
55°	10051	9678	8832
60°	8914	8008	7624
65°	7854	6654	6919
70°	7024	5774	6590
75°	6580	5614	6664
80°	6406	5676	6344
85°	5115	4491	4656



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	994.6	3.8
10°-20°	2929.8	11.3
20°-30°	4507.1	17.3
30°-40°	5260.0	20.2
40°-50°	4888.0	18.8
50°-60°	3623.1	13.9
60°-70°	2214.9	8.5
70°-80°	1261.6	4.8
80°-90°	360.8	1.4
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°	8431.5	32.4
0°-40°	13691.6	52.6
0°-60°	22202.7	85.3
0°-90°	26040.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	26040.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	10441	10441	10441	10441	10441	
5°	10463	10414	10420	10412	10471	995
15°	10167	10161	10358	10562	10684	2870
25°	9474	9547	9905	9989	10051	4364
35°	8314	8378	8548	8478	8446	5180
45°	6423	6461	6356	6256	6226	4949
55°	4285	4177	4126	3832	3765	3845
65°	2467	2241	2090	2146	2173	2469
75°	1266	1188	1080	1231	1282	1355
85°	331	323	291	302	302	382
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	10441.3	10441.3	10441.3	10441.3	10441.3
2.5°	10497.8	10438.6	10427.8	10403.6	10457.4
5°	10462.8	10414.4	10419.7	10411.7	10470.9
7.5°	10422.4	10387.4	10409.0	10406.3	10484.4
10°	10352.4	10333.6	10387.4	10446.7	10573.3
12.5°	10274.3	10255.5	10374.0	10524.8	10662.1
15°	10166.6	10161.2	10357.8	10562.5	10683.7
17.5°	10031.9	10040.0	10338.9	10514.0	10621.7
20°	9883.8	9897.3	10260.8	10403.6	10500.5
22.5°	9692.6	9738.4	10110.0	10228.5	10303.9
25°	9474.5	9547.2	9905.4	9988.8	10050.8
27.5°	9240.2	9312.9	9652.2	9695.3	9730.3
30°	8949.3	9051.6	9339.8	9345.2	9369.4
32.5°	8653.0	8744.6	8965.5	8941.2	8946.6
35°	8313.7	8378.3	8548.0	8478.0	8445.7
37.5°	7923.2	7958.2	8065.9	7960.9	7955.5
40°	7468.1	7513.9	7513.9	7368.4	7395.4
42.5°	6983.3	6999.5	6932.1	6794.8	6816.3
45°	6423.1	6460.8	6355.8	6256.2	6226.5
47.5°	5868.3	5906.0	5795.6	5679.8	5628.7
50°	5345.9	5327.0	5259.7	5063.1	4990.4
52.5°	4804.6	4745.3	4718.4	4430.2	4346.7
55°	4284.8	4177.1	4125.9	3832.3	3765.0
57.5°	3802.7	3608.8	3511.8	3282.9	3256.0
60°	3312.6	3094.4	2975.9	2827.8	2833.2
62.5°	2868.2	2639.3	2496.5	2453.4	2472.3
65°	2466.9	2240.7	2089.9	2146.4	2173.4
67.5°	2103.3	1917.5	1747.8	1879.8	1906.7
70°	1785.5	1637.4	1467.8	1661.7	1675.1
72.5°	1521.6	1400.4	1257.7	1440.8	1470.5
75°	1265.8	1187.7	1079.9	1230.8	1281.9
77.5°	1042.2	980.3	918.4	1009.9	1066.5
80°	826.8	764.9	732.5	781.0	818.7
82.5°	584.4	544.0	511.7	546.7	565.6
85°	331.3	323.2	290.9	301.6	301.6
87.5°	75.4	86.2	97.0	88.9	75.4
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)