

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-A-UNV-L735-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 (P23761)  
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-A-UNV-L735-ED3-U  
Description: METALUX HIGH BAY LINEAR LED  
Light Source: -  
Ballast/Driver: -

Luminaire Equipment: Sample No.    Condition    Description

**Summary**

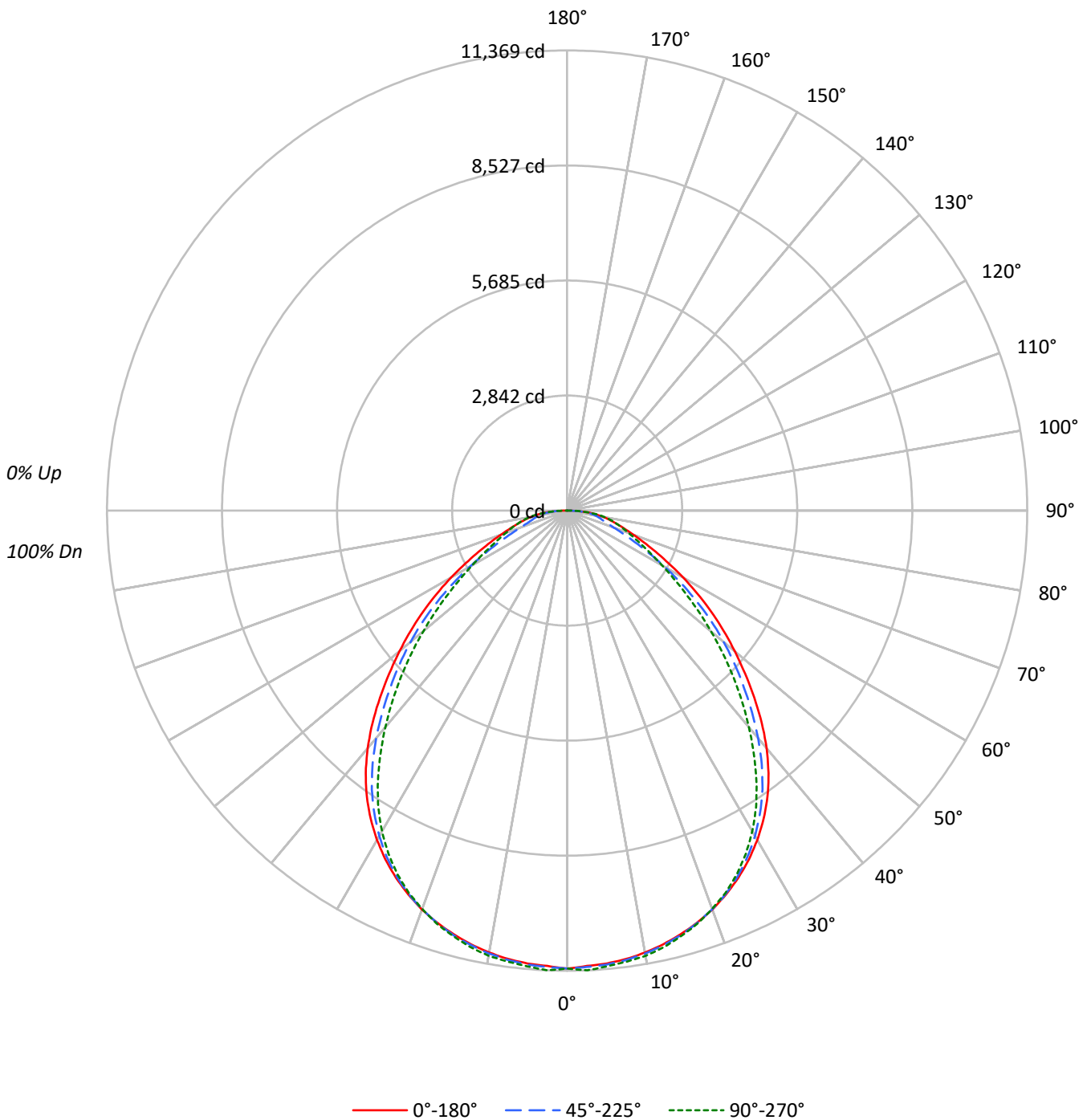
Lumens per Lamp: N/A  
Luminaire Lumens: 25991.0 lumens  
Efficiency: N/A  
Efficacy: 134.7 lumens/watt  
Spacing Criteria (0/90/45): 1.23 / 1.2 / 1.27  
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')  
CIE Type: Direct

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	101	98	107	103	100	96	99	96	93	95	93	90	91	90	88	86					86			
2	101	93	87	82	98	91	86	81	88	83	79	85	81	77	82	78	75	73					73			
3	93	83	75	70	90	81	75	69	79	73	68	76	71	67	73	69	65	63					63			
4	85	74	66	60	83	73	65	60	71	64	59	68	63	58	66	61	57	55					55			
5	79	67	59	52	77	66	58	52	64	57	52	62	56	51	60	55	51	49					49			
6	73	61	52	46	72	60	52	46	58	51	46	56	50	45	55	49	45	43					43			
7	68	55	47	41	67	55	47	41	53	46	41	52	45	41	50	45	40	38					38			
8	64	51	43	37	62	50	42	37	49	42	37	48	41	37	47	41	36	35					35			
9	60	47	39	34	58	46	39	34	45	38	33	44	38	33	43	37	33	31					31			
10	56	43	36	31	55	43	36	31	42	35	31	41	35	30	40	34	30	29					29			

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

	0°	45°	90°
0°	15223	15223	15223
5°	15169	15204	15266
10°	15148	15183	15259
15°	15097	15128	15163
20°	15018	15007	14996
25°	14855	14804	14721
30°	14599	14422	14212
35°	14174	13818	13393
40°	13470	12891	12273
45°	12443	11749	11038
50°	11311	10580	9709
55°	10171	9159	8393
60°	8900	7485	7283
65°	7674	5886	6573
70°	6842	4804	6335
75°	6554	4690	6620
80°	7089	5546	7376
85°	7958	6678	8037



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	1072.3	4.1
10°-20°	3068.9	11.8
20°-30°	4590.8	17.7
30°-40°	5237.7	20.2
40°-50°	4767.7	18.3
50°-60°	3500.9	13.5
60°-70°	2067.1	8.0
70°-80°	1184.6	4.6
80°-90°	500.9	1.9
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°	8732.0	33.6
0°-40°	13969.7	53.7
0°-60°	22238.3	85.6
0°-90°	25991.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	25991.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	11314	11314	11314	11314	11314	
5°	11231	11302	11257	11302	11303	###
15°	10838	10898	10860	10898	10886	3058
25°	10006	10042	9972	9968	9916	4606
35°	8630	8588	8413	8268	8154	5377
45°	6540	6501	6175	5898	5801	5040
55°	4336	4136	3905	3621	3578	3878
65°	2410	2104	1849	1978	2065	2426
75°	1261	1081	902	1176	1274	1359
85°	516	476	433	510	521	539
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	11314.3	11314.3	11314.3	11314.3	<i>11314.3</i>
2.5°	<i>11262.0</i>	<i>11327.1</i>	<i>11286.2</i>	<i>11330.9</i>	<i>11369.2</i>
5°	11231.4	11301.6	11256.9	11301.6	<i>11302.8</i>
7.5°	11175.2	11240.3	11196.9	11245.4	<i>11240.3</i>
10°	11087.2	11152.3	11112.7	11165.0	<i>11168.9</i>
12.5°	10974.9	11037.4	10996.6	11056.6	<i>11046.4</i>
15°	10838.4	10898.3	10860.1	10898.3	<i>10885.6</i>
17.5°	10677.6	10732.5	10682.7	10724.8	<i>10703.1</i>
20°	10488.7	10534.7	10481.1	10520.6	<i>10473.4</i>
22.5°	10262.9	10303.7	10247.6	10269.3	<i>10220.8</i>
25°	10006.4	10042.1	9972.0	9968.1	<i>9915.8</i>
27.5°	9720.6	9739.7	9650.4	9619.8	<i>9559.8</i>
30°	9396.5	9401.6	9282.9	9225.5	<i>9147.7</i>
32.5°	9032.8	9020.1	8868.2	8782.7	<i>8687.0</i>
35°	8629.6	8587.5	8412.7	8268.5	<i>8153.7</i>
37.5°	8174.1	8107.7	7898.5	7685.4	<i>7575.6</i>
40°	7668.8	7590.9	7339.6	7075.4	<i>6987.4</i>
42.5°	7118.8	7052.5	6756.4	6480.8	<i>6394.1</i>
45°	6539.5	6501.2	6174.6	5897.7	<i>5800.7</i>
47.5°	5960.2	5932.1	5613.1	5331.1	<i>5213.7</i>
50°	5403.9	5342.6	5054.2	4745.5	<i>4638.3</i>
52.5°	4864.1	4739.1	4485.2	4168.7	<i>4089.6</i>
55°	4335.9	4135.5	3904.6	3621.3	<i>3577.9</i>
57.5°	3812.7	3553.7	3329.1	3117.3	<i>3116.0</i>
60°	3307.4	3011.4	2781.7	2670.7	<i>2706.4</i>
62.5°	2834.0	2530.3	2281.5	2289.1	<i>2354.2</i>
65°	2410.4	2104.1	1848.9	1977.8	<i>2064.6</i>
67.5°	2046.7	1754.5	1495.5	1735.4	<i>1818.3</i>
70°	1739.2	1475.1	1221.1	1521.0	<i>1610.3</i>
72.5°	1480.2	1258.1	1029.7	1342.4	<i>1433.0</i>
75°	1260.7	1080.8	902.1	1176.5	<i>1273.5</i>
77.5°	1082.1	922.6	809.0	1018.3	<i>1119.1</i>
80°	914.9	774.5	715.8	865.1	<i>951.9</i>
82.5°	724.8	627.8	593.3	703.1	<i>747.7</i>
85°	515.5	475.9	432.6	510.4	<i>520.6</i>
87.5°	283.3	293.5	242.4	293.5	<i>294.8</i>
90°	0.0	0.0	0.0	0.0	<i>0.0</i>

(END OF REPORT)