

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-L750-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-L750-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

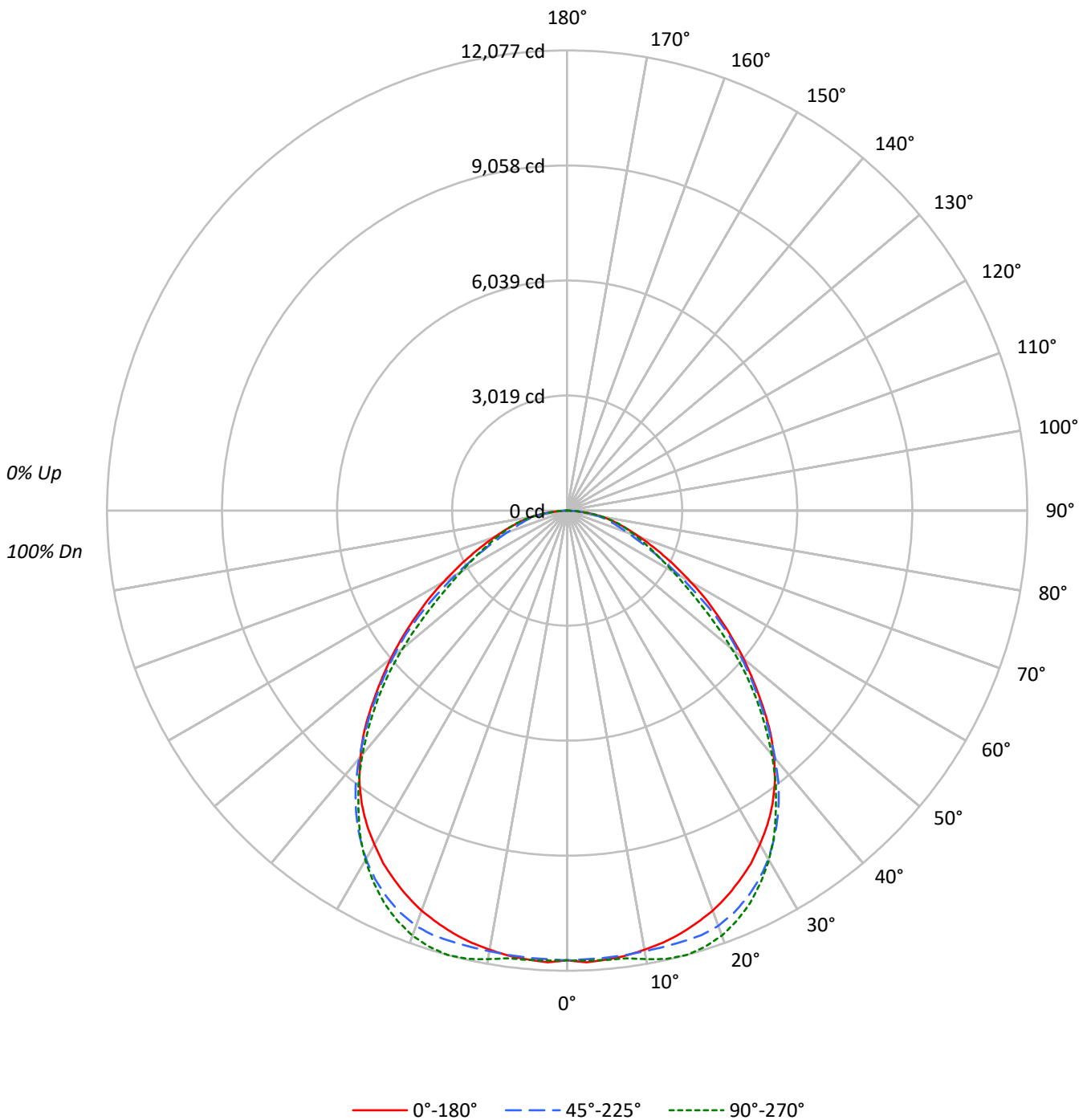
Lumens per Lamp: N/A
Luminaire Lumens: 29436.0 lumens
Efficiency: N/A
Efficacy: 152.5 lumens/watt
Spacing Criteria (0/90/45): 1.27 / 1.3 / 1.33
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

Input Watts (W): 193
Input Voltage (V): NR
Input Current (A_{in}): 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°	15881	15881	15881
5°	15974	15909	15987
10°	15988	16043	16330
15°	16009	16310	16823
20°	15998	16608	16996
25°	15900	16623	16867
30°	15717	16403	16455
35°	15436	15872	15681
40°	14828	14919	14683
45°	13816	13671	13393
50°	12649	12445	11808
55°	11362	10941	9984
60°	10077	9052	8618
65°	8878	7521	7822
70°	7940	6527	7449
75°	7438	6346	7533
80°	7242	6416	7171
85°	5781	5076	5264



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1124.4	3.8
10°-20°	3311.9	11.3
20°-30°	5094.9	17.3
30°-40°	5946.0	20.2
40°-50°	5525.5	18.8
50°-60°	4095.7	13.9
60°-70°	2503.7	8.5
70°-80°	1426.1	4.8
80°-90°	407.9	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°	9531.1	32.4
0°-40°	15477.2	52.6
0°-60°	25098.3	85.3
0°-90°	29436.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	29436.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	11803	11803	11803	11803	11803	
5°	11827	11772	11779	11770	11836	###
15°	11492	11486	11709	11940	12077	3244
25°	10710	10792	11197	11292	11362	4934
35°	9398	9471	9663	9584	9547	5856
45°	7261	7303	7185	7072	7039	5595
55°	4844	4722	4664	4332	4256	4347
65°	2789	2533	2362	2426	2457	2791
75°	1431	1343	1221	1391	1449	1531
85°	374	365	329	341	341	432
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	11803.0	11803.0	11803.0	11803.0	<i>11803.0</i>
2.5°	11866.9	11799.9	11787.8	11760.4	<i>11821.3</i>
5°	11827.3	11772.5	11778.6	11769.5	<i>11836.5</i>
7.5°	11781.7	11742.1	11766.5	11763.4	<i>11851.7</i>
10°	11702.5	11681.2	11742.1	11809.1	<i>11952.2</i>
12.5°	11614.2	11592.9	11726.9	11897.4	<i>12052.6</i>
15°	<i>11492.5</i>	<i>11486.4</i>	<i>11708.6</i>	<i>11940.0</i>	<i>12077.0</i>
17.5°	11340.2	11349.4	11687.3	11885.2	<i>12007.0</i>
20°	11172.8	11188.0	11599.0	11760.4	<i>11870.0</i>
22.5°	10956.7	11008.4	11428.5	11562.5	<i>11647.7</i>
25°	10710.1	10792.3	11197.2	11291.5	<i>11361.6</i>
27.5°	10445.2	10527.4	10911.0	10959.7	<i>10999.3</i>
30°	10116.4	10232.1	10557.8	10563.9	<i>10591.3</i>
32.5°	9781.5	9885.0	10134.7	10107.3	<i>10113.4</i>
35°	9397.9	9471.0	9662.8	9583.6	<i>9547.1</i>
37.5°	8956.5	8996.1	9117.9	8999.1	<i>8993.0</i>
40°	8442.0	8493.8	8493.8	8329.4	<i>8359.8</i>
42.5°	7894.0	7912.3	7836.2	7680.9	<i>7705.3</i>
45°	7260.8	7303.4	7184.7	7072.1	<i>7038.6</i>
47.5°	6633.7	6676.3	6551.5	6420.6	<i>6362.7</i>
50°	6043.1	6021.7	5945.6	5723.4	<i>5641.2</i>
52.5°	5431.1	5364.2	5333.7	5008.0	<i>4913.6</i>
55°	4843.6	4721.8	4664.0	4332.1	<i>4256.0</i>
57.5°	4298.6	4079.4	3969.8	3711.1	<i>3680.6</i>
60°	3744.6	3498.0	3364.0	3196.6	<i>3202.7</i>
62.5°	3242.2	2983.5	2822.1	2773.4	<i>2794.7</i>
65°	2788.6	2532.9	2362.4	2426.4	<i>2456.8</i>
67.5°	2377.6	2167.6	1975.8	2125.0	<i>2155.4</i>
70°	2018.4	1851.0	1659.2	1878.4	<i>1893.6</i>
72.5°	1720.1	1583.1	1421.7	1628.7	<i>1662.2</i>
75°	1430.8	1342.6	1220.8	1391.3	<i>1449.1</i>
77.5°	1178.2	1108.1	1038.1	1141.6	<i>1205.6</i>
80°	934.6	864.6	828.1	882.9	<i>925.5</i>
82.5°	660.6	615.0	578.4	618.0	<i>639.3</i>
85°	374.5	365.3	328.8	341.0	<i>341.0</i>
87.5°	85.2	97.4	109.6	100.5	<i>85.2</i>
90°	0.0	0.0	0.0	0.0	<i>0.0</i>

(END OF REPORT)