

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-CL-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 (P23762)
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-CL-UNV-L750-ED3-U
Description: METALUX HIGH BAY LINEAR LED
Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

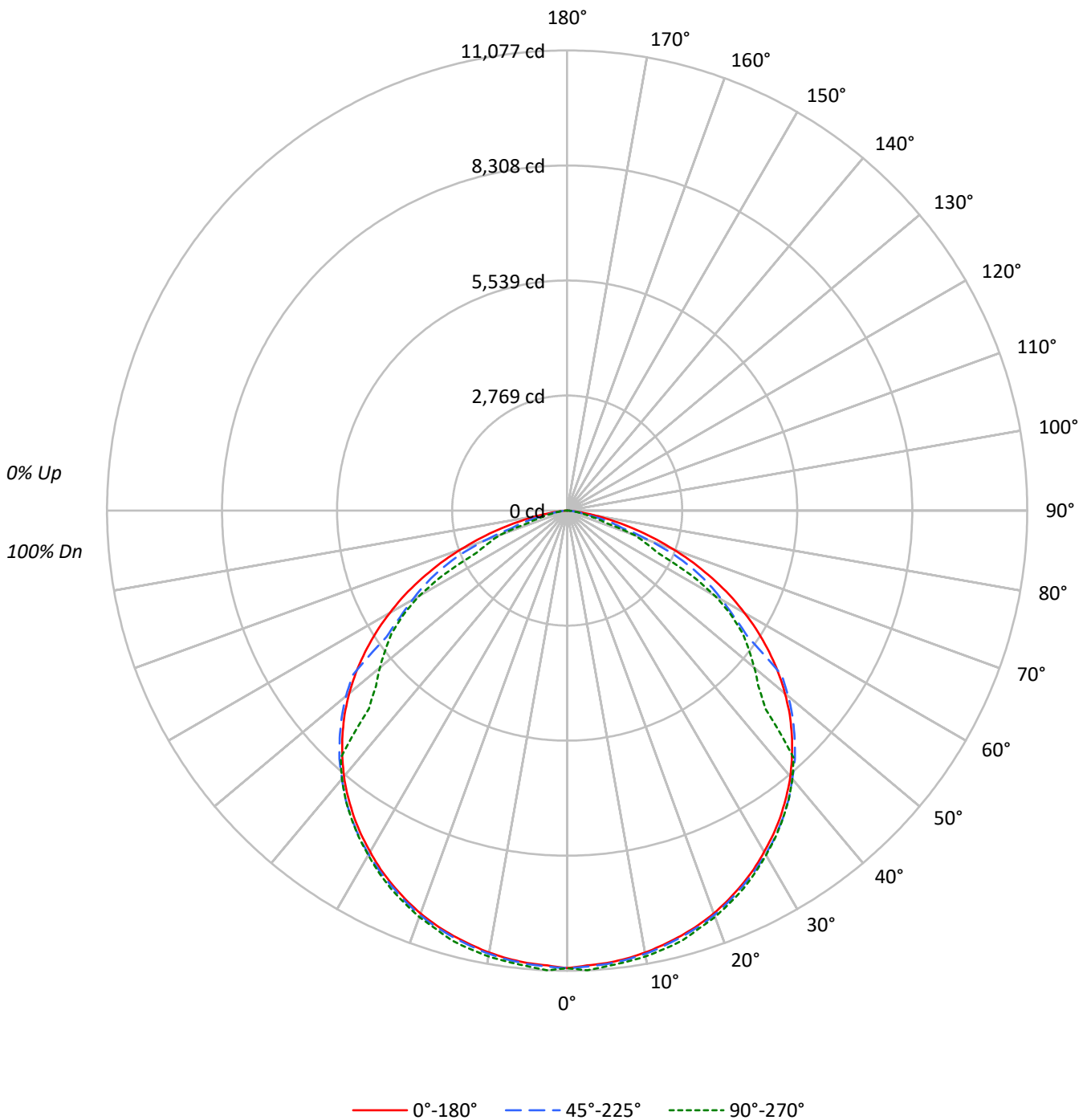
Lumens per Lamp: N/A
Luminaire Lumens: 29772.0 lumens
Efficiency: N/A
Efficacy: 154.3 lumens/watt
Spacing Criteria (0/90/45): 1.28 / 1.29 / 1.41
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

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	106	102	98	107	103	100	97	99	96	94	95	93	91	92	90	88					86				
2	100	93	86	81	98	91	85	80	87	82	78	84	80	76	81	78	75					73				
3	92	82	74	68	89	80	73	67	77	71	66	75	69	65	72	68	64					62				
4	84	73	64	58	82	71	64	57	69	62	57	67	61	56	64	59	55					53				
5	77	65	56	50	75	64	56	50	62	55	49	60	54	49	58	53	48					46				
6	72	59	50	44	70	58	49	43	56	49	43	54	48	43	53	47	42					40				
7	66	53	45	39	65	52	44	38	51	43	38	49	43	38	48	42	38					36				
8	62	48	40	34	60	48	40	34	46	39	34	45	39	34	44	38	34					32				
9	58	44	36	31	56	44	36	31	43	36	31	42	35	31	41	35	30					29				
10	54	41	33	28	53	40	33	28	40	33	28	39	32	28	38	32	28					26				

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	14817	14817	14817
5°	14763	14796	14868
10°	14762	14804	14890
15°	14761	14806	14925
20°	14779	14835	14904
25°	14763	14818	14908
30°	14735	14843	14876
35°	14728	14862	14873
40°	14682	14811	14811
45°	14556	14732	12836
50°	14331	14547	12316
55°	13925	12453	12097
60°	13271	11575	11052
65°	12273	10745	7654
70°	10687	8361	6820
75°	8441	5611	3667
80°	5434	2680	2286
85°	2235	1635	1802



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1044.6	3.5
10°-20°	3011.0	10.1
20°-30°	4616.3	15.5
30°-40°	5658.0	19.0
40°-50°	5816.9	19.5
50°-60°	4964.4	16.7
60°-70°	3282.1	11.0
70°-80°	1216.0	4.1
80°-90°	162.6	0.5
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°	8672.0	29.1
0°-40°	14330.0	48.1
0°-60°	25111.3	84.3
0°-90°	29772.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	29772.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	11013	11013	11013	11013	11013	
5°	10931	11007	10955	10998	11008	###
15°	10597	10661	10629	10710	10715	2993
25°	9944	9996	9981	10071	10042	4585
35°	8966	9028	9048	9104	9055	5608
45°	7650	7726	7742	7730	6746	5895
55°	5936	6045	5308	5154	5157	5297
65°	3855	3887	3375	2776	2404	3801
75°	1624	1423	1079	725	705	1742
85°	145	103	106	115	117	240
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	11012.6	11012.6	11012.6	11012.6	<i>11012.6</i>
2.5°	<i>10958.9</i>	<i>11027.3</i>	<i>10987.1</i>	<i>11038.0</i>	<i>11076.9</i>
5°	10930.8	11007.2	10954.9	10997.8	<i>11008.5</i>
7.5°	10882.5	10953.6	10905.3	10961.6	<i>10953.6</i>
10°	10804.7	10869.1	10835.6	10894.6	<i>10898.6</i>
12.5°	10705.5	10769.9	10739.0	10811.4	<i>10810.1</i>
15°	10596.9	10661.2	10629.1	10709.5	<i>10714.9</i>
17.5°	10469.5	10528.5	10504.4	10578.1	<i>10548.6</i>
20°	10322.0	10373.0	10360.9	10430.6	<i>10409.2</i>
22.5°	10141.0	10193.3	10181.2	10261.7	<i>10229.5</i>
25°	9943.9	9996.2	9981.4	10071.3	<i>10041.8</i>
27.5°	9730.7	9780.3	9779.0	9863.4	<i>9817.8</i>
30°	9484.0	9549.7	9553.7	9628.8	<i>9575.1</i>
32.5°	9239.9	9301.6	9319.0	9374.0	<i>9328.4</i>
35°	8966.4	9028.1	9048.2	9104.5	<i>9054.9</i>
37.5°	8671.4	8723.7	8759.9	8801.5	<i>8762.6</i>
40°	8359.0	8405.9	8432.7	8483.7	<i>8432.7</i>
42.5°	8010.3	8077.4	8114.9	8151.1	<i>8068.0</i>
45°	7649.7	7726.1	7742.2	7730.1	<i>6745.9</i>
47.5°	7267.5	7350.6	7360.0	6418.7	<i>6237.7</i>
50°	6846.5	6951.1	6949.7	5932.0	<i>5883.7</i>
52.5°	6408.0	6508.6	6504.6	5551.2	<i>5519.0</i>
55°	5936.0	6044.6	5308.5	5154.3	<i>5157.0</i>
57.5°	5454.7	5532.4	4762.8	4769.5	<i>4681.0</i>
60°	4931.7	5005.5	4301.5	4259.9	<i>4107.1</i>
62.5°	4407.4	4438.3	3855.0	3652.5	<i>3361.6</i>
65°	3855.0	3887.2	3375.0	2775.6	<i>2404.2</i>
67.5°	3287.8	3320.0	2801.1	2064.9	<i>2036.8</i>
70°	2716.6	2453.8	2125.3	1720.3	<i>1733.7</i>
72.5°	2153.4	1885.3	1389.1	1332.8	<i>962.7</i>
75°	1623.8	1422.7	1079.4	725.4	<i>705.3</i>
77.5°	1130.4	980.2	577.9	494.8	<i>462.6</i>
80°	701.3	492.1	345.9	307.1	<i>295.0</i>
82.5°	355.3	282.9	187.7	187.7	<i>187.7</i>
85°	144.8	103.2	105.9	115.3	<i>116.7</i>
87.5°	30.8	41.6	51.0	52.3	<i>51.0</i>
90°	0.0	0.0	0.0	0.0	<i>0.0</i>

(END OF REPORT)