

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-LD5-30HE-W-CL-UNV-L750-ED2-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-LD5-30HE-W-CL-UNV-L750-ED2-U  
Description: METALUX HIGH BAY LINEAR LED  
Light Source: -  
Ballast/Driver: -

Luminaire Equipment: Sample No.    Condition    Description

**Summary**

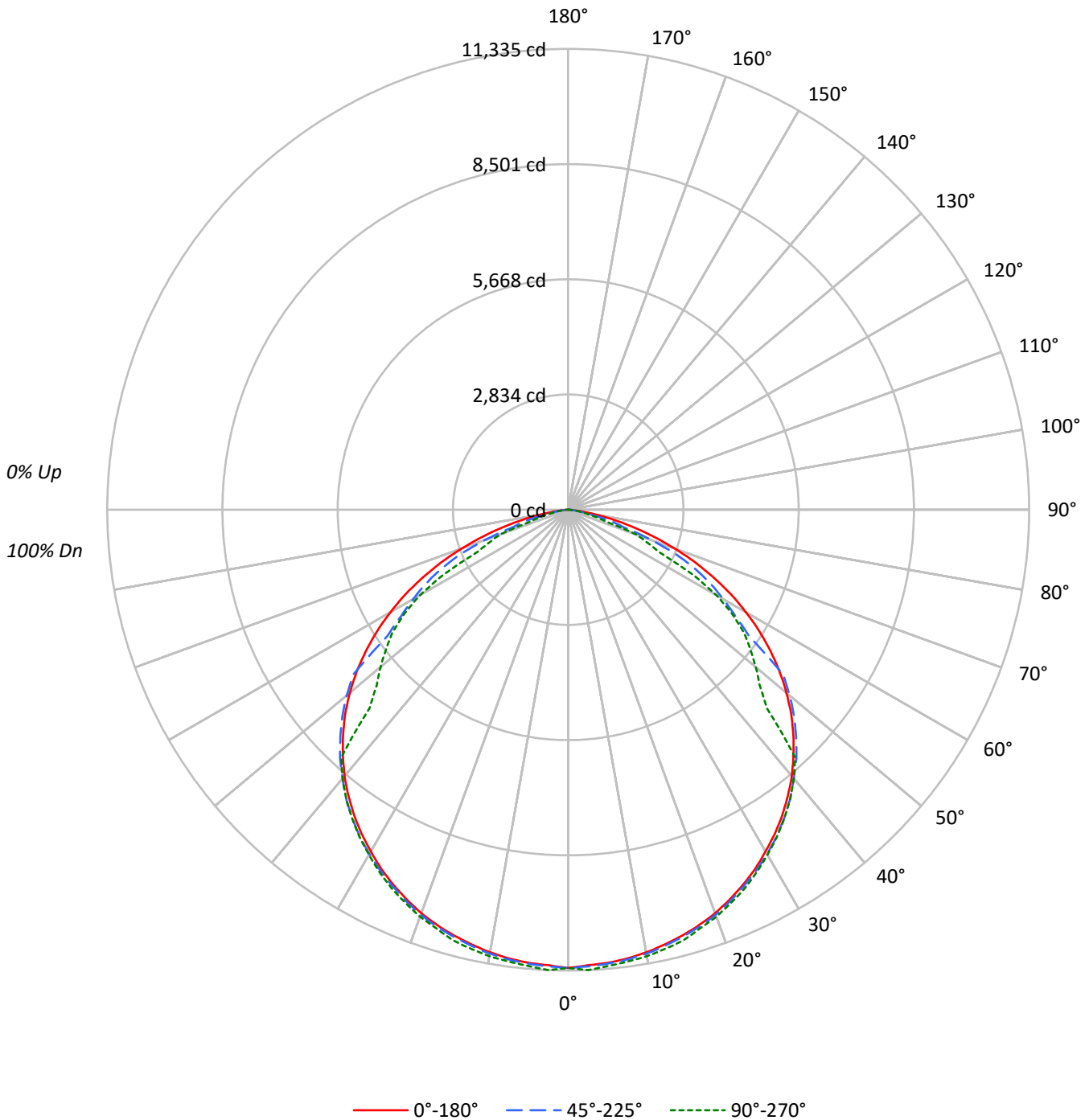
Lumens per Lamp: N/A  
Luminaire Lumens: 30465.0 lumens  
Efficiency: N/A  
Efficacy: 169.2 lumens/watt  
Spacing Criteria (0/90/45): 1.28 / 1.29 / 1.41  
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')  
CIE Type: Direct

Input Watts (W): 180  
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	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°	15162	15162	15162
5°	15107	15140	15215
10°	15105	15149	15237
15°	15104	15150	15273
20°	15124	15181	15251
25°	15106	15163	15255
30°	15078	15189	15223
35°	15070	15208	15219
40°	15023	15156	15156
45°	14895	15075	13135
50°	14665	14886	12603
55°	14249	12743	12379
60°	13580	11845	11309
65°	12559	10995	7832
70°	10936	8555	6979
75°	8638	5742	3752
80°	5560	2743	2339
85°	2288	1673	1843



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	1069.0	3.5
10°-20°	3081.1	10.1
20°-30°	4723.8	15.5
30°-40°	5789.7	19.0
40°-50°	5952.3	19.5
50°-60°	5080.0	16.7
60°-70°	3358.5	11.0
70°-80°	1244.3	4.1
80°-90°	166.4	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°	8873.8	29.1
0°-40°	14663.6	48.1
0°-60°	25695.8	84.3
0°-90°	30465.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	30465.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	11269	11269	11269	11269	11269	
5°	11185	11263	11210	11254	11265	###
15°	10844	10909	10876	10959	10964	3063
25°	10175	10229	10214	10306	10276	4692
35°	9175	9238	9259	9316	9266	5739
45°	7828	7906	7922	7910	6903	6032
55°	6074	6185	5432	5274	5277	5420
65°	3945	3978	3454	2840	2460	3890
75°	1662	1456	1104	742	722	1783
85°	148	106	108	118	119	245
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	11268.9	11268.9	11268.9	11268.9	<i>11268.9</i>
2.5°	<i>11214.0</i>	<i>11284.0</i>	<i>11242.8</i>	<i>11295.0</i>	<i>11334.7</i>
5°	11185.2	11263.4	11209.9	11253.8	<i>11264.8</i>
7.5°	11135.8	11208.5	11159.1	11216.7	<i>11208.5</i>
10°	11056.2	11122.1	11087.8	11148.1	<i>11152.3</i>
12.5°	10954.7	11020.5	10989.0	11063.1	<i>11061.7</i>
15°	10843.5	10909.4	10876.5	10958.8	<i>10964.3</i>
17.5°	10713.2	10773.6	10748.9	10824.3	<i>10794.1</i>
20°	10562.3	10614.4	10602.1	10673.4	<i>10651.5</i>
22.5°	10377.0	10430.5	10418.2	10500.5	<i>10467.6</i>
25°	10175.3	10228.9	10213.8	10305.7	<i>10275.5</i>
27.5°	9957.2	10007.9	10006.6	10093.0	<i>10046.4</i>
30°	9704.7	9772.0	9776.1	9852.9	<i>9798.0</i>
32.5°	9455.0	9518.1	9536.0	9592.2	<i>9545.6</i>
35°	9175.1	9238.2	9258.8	9316.4	<i>9265.7</i>
37.5°	8873.2	8926.7	8963.8	9006.3	<i>8966.5</i>
40°	8553.5	8601.6	8629.0	8681.1	<i>8629.0</i>
42.5°	8196.8	8265.4	8303.8	8340.9	<i>8255.8</i>
45°	7827.7	7905.9	7922.4	7910.0	<i>6902.9</i>
47.5°	7436.7	7521.7	7531.3	6568.1	<i>6382.9</i>
50°	7005.8	7112.9	7111.5	6070.1	<i>6020.7</i>
52.5°	6557.2	6660.1	6656.0	5680.4	<i>5647.5</i>
55°	6074.2	6185.3	5432.1	5274.3	<i>5277.0</i>
57.5°	5581.6	5661.2	4873.6	4880.5	<i>4789.9</i>
60°	5046.5	5122.0	4401.6	4359.1	<i>4202.7</i>
62.5°	4510.0	4541.6	3944.7	3737.5	<i>3439.8</i>
65°	3944.7	3977.7	3453.5	2840.2	<i>2460.1</i>
67.5°	3364.3	3397.3	2866.3	2113.0	<i>2084.2</i>
70°	2779.8	2510.9	2174.7	1760.4	<i>1774.1</i>
72.5°	2203.6	1929.1	1421.5	1363.8	<i>985.2</i>
75°	1661.6	1455.8	1104.5	742.3	<i>721.7</i>
77.5°	1156.7	1003.0	591.4	506.3	<i>473.4</i>
80°	717.6	503.6	354.0	314.2	<i>301.9</i>
82.5°	363.6	289.5	192.1	192.1	<i>192.1</i>
85°	148.2	105.7	108.4	118.0	<i>119.4</i>
87.5°	31.6	42.5	52.1	53.5	<i>52.1</i>
90°	0.0	0.0	0.0	0.0	<i>0.0</i>

(END OF REPORT)