

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-LD5-36HE-W-CL-UNV-L840-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-LD5-36HE-W-CL-UNV-L840-ED3-U  
Description: METALUX HIGH BAY LINEAR LED  
Light Source: -  
Ballast/Driver: -

Luminaire Equipment: Sample No.    Condition    Description

**Summary**

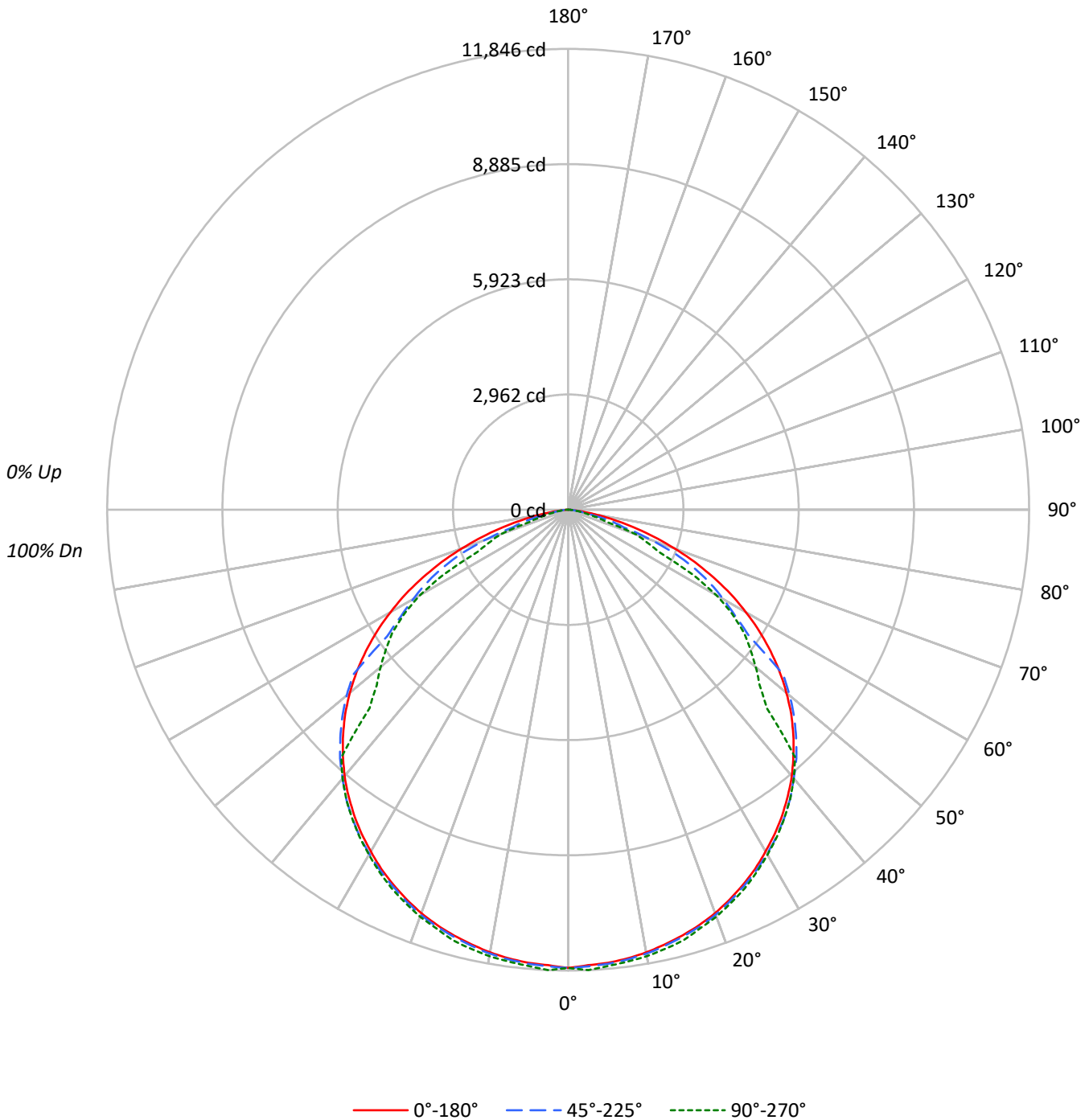
Lumens per Lamp: N/A  
Luminaire Lumens: 31839.0 lumens  
Efficiency: N/A  
Efficacy: 150.7 lumens/watt  
Spacing Criteria (0/90/45): 1.28 / 1.29 / 1.41  
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')  
CIE Type: Direct

Input Watts (W): 211.3  
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°	15846	15846	15846
5°	15788	15823	15901
10°	15787	15832	15924
15°	15786	15834	15962
20°	15806	15865	15939
25°	15788	15847	15943
30°	15758	15874	15909
35°	15750	15894	15906
40°	15701	15840	15840
45°	15567	15755	13727
50°	15326	15557	13171
55°	14891	13317	12937
60°	14192	12379	11819
65°	13125	11491	8186
70°	11429	8941	7294
75°	9027	6001	3921
80°	5811	2867	2445
85°	2391	1749	1927



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	1117.2	3.5
10°-20°	3220.1	10.1
20°-30°	4936.8	15.5
30°-40°	6050.9	19.0
40°-50°	6220.7	19.5
50°-60°	5309.1	16.7
60°-70°	3509.9	11.0
70°-80°	1300.4	4.1
80°-90°	173.9	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°	9274.1	29.1
0°-40°	15324.9	48.1
0°-60°	26854.8	84.3
0°-90°	31839.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	31839.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	11777	11777	11777	11777	11777	
5°	11690	11771	11716	11761	11773	###
15°	11333	11401	11367	11453	11459	3201
25°	10634	10690	10674	10770	10739	4903
35°	9589	9655	9676	9737	9684	5998
45°	8181	8262	8280	8267	7214	6304
55°	6348	6464	5677	5512	5515	5664
65°	4123	4157	3609	2968	2571	4065
75°	1736	1521	1154	776	754	1863
85°	155	110	113	123	125	256
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	11777.1	11777.1	11777.1	11777.1	11777.1
2.5°	11719.8	11792.9	11749.9	11804.4	11846.0
5°	11689.7	11771.4	11715.5	11761.4	11772.8
7.5°	11638.0	11714.0	11662.4	11722.6	11714.0
10°	11554.9	11623.7	11587.8	11650.9	11655.2
12.5°	11448.7	11517.6	11484.6	11562.0	11560.6
15°	11332.6	11401.4	11367.0	11453.1	11458.8
17.5°	11196.4	11259.5	11233.7	11312.5	11281.0
20°	11038.6	11093.1	11080.2	11154.8	11131.8
22.5°	10845.1	10901.0	10888.1	10974.1	10939.7
25°	10634.3	10690.2	10674.4	10770.5	10738.9
27.5°	10406.3	10459.3	10457.9	10548.2	10499.5
30°	10142.4	10212.7	10217.0	10297.3	10239.9
32.5°	9881.4	9947.4	9966.0	10024.8	9976.1
35°	9588.9	9654.9	9676.4	9736.6	9683.5
37.5°	9273.4	9329.4	9368.1	9412.5	9370.9
40°	8939.3	8989.5	9018.2	9072.7	9018.2
42.5°	8566.5	8638.2	8678.3	8717.1	8628.1
45°	8180.8	8262.5	8279.7	8266.8	7214.3
47.5°	7772.1	7861.0	7871.0	6864.4	6670.8
50°	7321.8	7433.7	7432.2	6343.8	6292.2
52.5°	6852.9	6960.4	6956.1	5936.6	5902.2
55°	6348.1	6464.3	5677.1	5512.1	5515.0
57.5°	5833.4	5916.5	5093.4	5100.6	5006.0
60°	5274.1	5353.0	4600.1	4555.7	4392.2
62.5°	4713.4	4746.4	4122.6	3906.1	3594.9
65°	4122.6	4157.1	3609.3	2968.3	2571.1
67.5°	3516.1	3550.5	2995.5	2208.3	2178.2
70°	2905.2	2624.1	2272.8	1839.8	1854.1
72.5°	2302.9	2016.1	1485.6	1425.4	1029.6
75°	1736.5	1521.4	1154.3	775.8	754.3
77.5°	1208.8	1048.2	618.0	529.1	494.7
80°	750.0	526.3	370.0	328.4	315.5
82.5°	380.0	302.6	200.8	200.8	200.8
85°	154.9	110.4	113.3	123.3	124.8
87.5°	33.0	44.5	54.5	55.9	54.5
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)