

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-LD5-36SE-W-UNV-L850-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 (P23760)
Test Lab: INNOVATION CENTER P2
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: HBLED-LD5-36SE-W-UNV-L850-ED3-U
Description: METALUX HIGH BAY LINEAR LED
Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

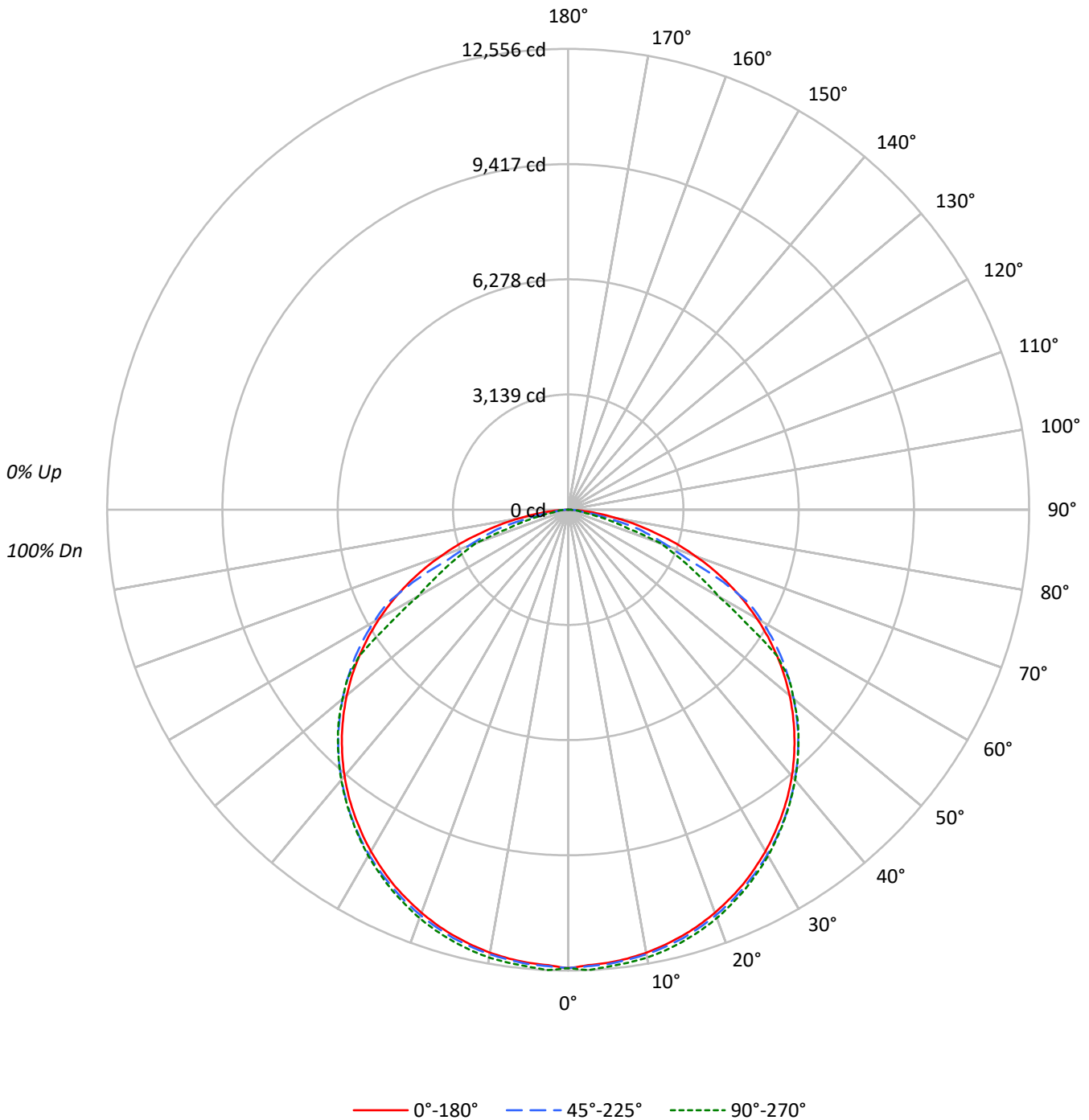
Lumens per Lamp: N/A
Luminaire Lumens: 36057.0 lumens
Efficiency: N/A
Efficacy: 155.4 lumens/watt
Spacing Criteria (0/90/45): 1.28 / 1.29 / 1.42
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

Input Watts (W): 232
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	109	105	101	97	107	102	99	95	98	95	92		94	92	89		91	89	87	85
2	99	91	85	79	97	90	83	78	86	81	76		83	78	75		80	76	73	71
3	91	80	72	66	88	79	71	65	76	69	64		73	68	63		70	66	62	60
4	83	71	62	56	81	70	62	55	67	60	55		65	59	54		63	57	53	51
5	76	63	54	48	74	62	54	48	60	53	47		58	52	47		56	51	46	44
6	70	57	48	42	68	56	48	42	54	47	41		53	46	41		51	45	40	38
7	65	52	43	37	63	51	43	37	49	42	36		48	41	36		46	40	36	34
8	61	47	39	33	59	46	38	33	45	38	32		44	37	32		43	37	32	30
9	57	43	35	29	55	43	35	29	41	34	29		40	34	29		39	33	29	27
10	53	40	32	27	52	39	32	27	38	31	26		37	31	26		36	30	26	24

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	16805	16805	16805
5°	16736	16782	16877
10°	16745	16804	16931
15°	16741	16830	16947
20°	16732	16839	16957
25°	16726	16846	16939
30°	16697	16860	16922
35°	16676	16868	16890
40°	16646	16866	16893
45°	16583	16859	16879
50°	16484	16788	16785
55°	16291	16699	16284
60°	15989	16452	12741
65°	15456	14807	11479
70°	14479	11393	10580
75°	12821	9933	6593
80°	10558	5848	2947
85°	6958	3583	3861



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1185.2	3.3
10°-20°	3419.5	9.5
20°-30°	5242.5	14.5
30°-40°	6429.3	17.8
40°-50°	6826.9	18.9
50°-60°	6235.5	17.3
60°-70°	4342.4	12.0
70°-80°	2025.3	5.6
80°-90°	350.4	1.0
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°	9847.1	27.3
0°-40°	16276.5	45.1
0°-60°	29338.9	81.4
0°-90°	36057.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	36057.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	12490	12490	12490	12490	12490	
5°	12391	12478	12425	12485	12496	###
15°	12018	12102	12082	12156	12166	3394
25°	11266	11365	11347	11431	11410	5192
35°	10152	10269	10269	10338	10283	6353
45°	8715	8847	8860	8917	8871	6721
55°	6945	7084	7119	7131	6942	6202
65°	4855	5004	4651	3699	3606	4790
75°	2466	2622	1911	1324	1268	2636
85°	451	296	232	249	250	582
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	12489.8	12489.8	12489.8	12489.8	12489.8
2.5°	12423.9	12503.3	12450.9	12507.8	12555.7
5°	12391.0	12477.8	12425.4	12485.3	12495.8
7.5°	12337.1	12419.4	12371.5	12437.4	12453.9
10°	12256.2	12337.1	12299.6	12377.5	12392.5
12.5°	12146.9	12229.3	12200.8	12286.2	12296.7
15°	12018.1	12102.0	12082.5	12155.9	12166.4
17.5°	11866.9	11953.7	11931.3	12009.2	12016.6
20°	11685.7	11780.0	11760.6	11851.9	11842.9
22.5°	11482.1	11582.4	11567.4	11658.8	11631.8
25°	11266.4	11365.3	11347.3	11431.2	11410.2
27.5°	11013.4	11122.7	11106.2	11187.1	11154.1
30°	10746.8	10857.7	10851.7	10925.0	10892.1
32.5°	10459.3	10577.6	10571.6	10643.5	10592.6
35°	10152.4	10269.2	10269.2	10338.1	10282.6
37.5°	9827.4	9945.7	9947.2	10013.1	9960.7
40°	9477.0	9595.3	9602.8	9665.7	9617.8
42.5°	9108.7	9237.5	9243.5	9300.4	9255.4
45°	8714.9	8846.6	8860.1	8917.0	8870.6
47.5°	8303.1	8436.4	8448.3	8509.7	8476.8
50°	7874.8	8003.6	8020.1	8071.0	8018.6
52.5°	7422.6	7554.4	7576.8	7608.3	7584.3
55°	6944.9	7084.2	7118.6	7130.6	6941.9
57.5°	6450.8	6593.1	6626.0	6350.5	5744.0
60°	5941.7	6082.4	6113.9	5166.0	4734.8
62.5°	5411.6	5549.4	5583.8	4281.1	4143.3
65°	4854.6	5004.3	4650.9	3698.6	3605.7
67.5°	4282.6	4436.8	3517.4	3170.0	3114.6
70°	3680.6	3836.3	2896.0	2702.8	2689.3
72.5°	3102.6	3217.9	2376.4	2048.4	1725.0
75°	2466.2	2621.9	1910.7	1323.7	1268.3
77.5°	1912.2	1653.1	1153.0	970.3	765.2
80°	1362.6	1105.1	754.7	402.8	380.3
82.5°	864.0	721.7	296.5	304.0	317.4
85°	450.7	296.5	232.1	248.6	250.1
87.5°	145.2	127.3	139.3	137.8	136.3
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)