

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-L735-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-L735-ED3-U  
Description: METALUX HIGH BAY LINEAR LED  
Light Source: -  
Ballast/Driver: -

Luminaire Equipment: Sample No.    Condition    Description

**Summary**

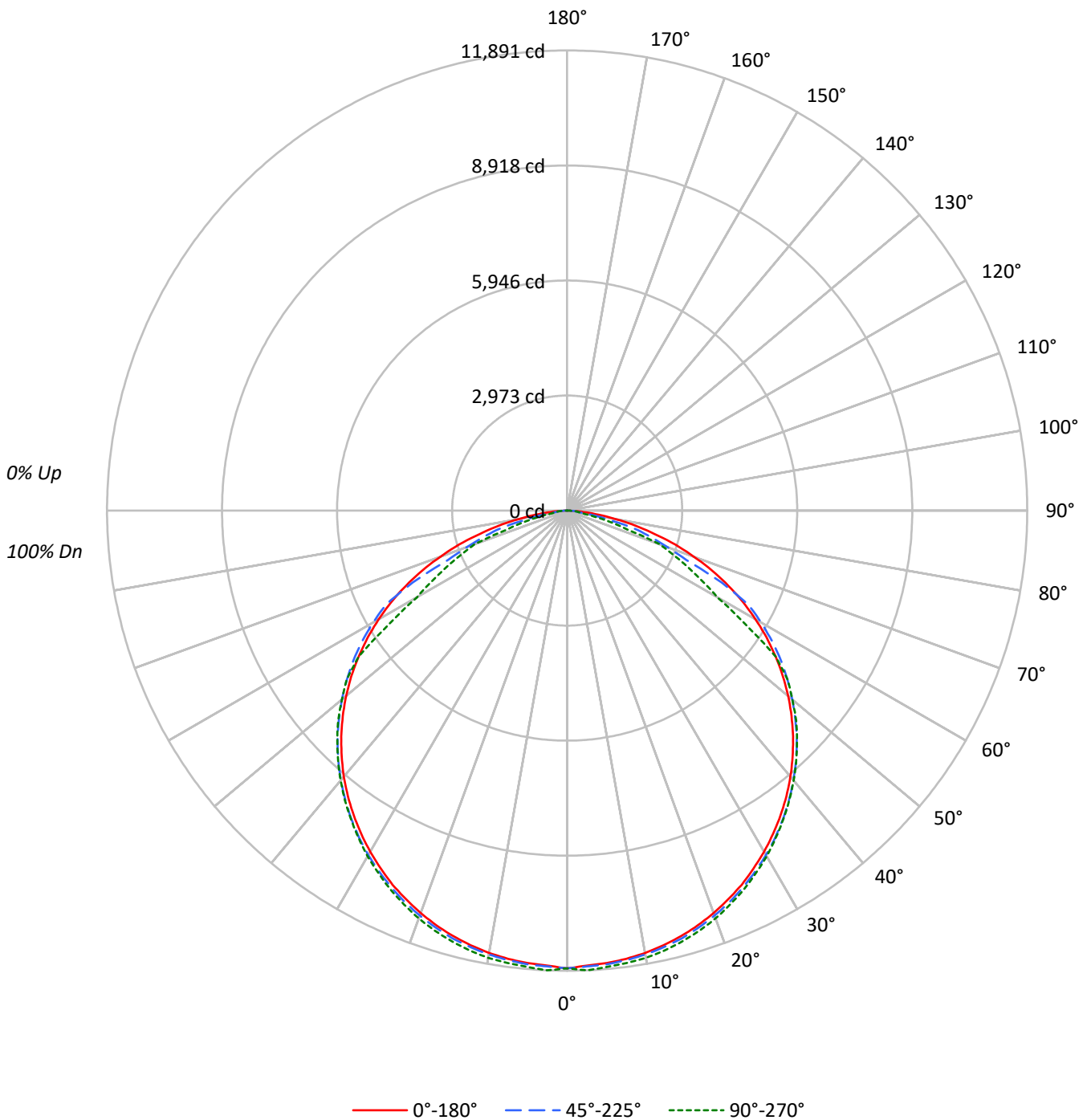
Lumens per Lamp: N/A  
Luminaire Lumens: 34148.0 lumens  
Efficiency: N/A  
Efficacy: 147.2 lumens/watt  
Spacing Criteria (0/90/45): 1.28 / 1.29 / 1.42  
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')  
CIE Type: Direct

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°	15915	15915	15915
5°	15850	15894	15984
10°	15858	15915	16035
15°	15854	15939	16050
20°	15846	15948	16059
25°	15841	15954	16043
30°	15813	15967	16026
35°	15793	15975	15995
40°	15764	15974	15998
45°	15705	15966	15986
50°	15611	15899	15896
55°	15429	15815	15422
60°	15142	15581	12067
65°	14637	14023	10872
70°	13713	10789	10019
75°	12142	9407	6244
80°	9999	5538	2791
85°	6590	3393	3656



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	1122.5	3.3
10°-20°	3238.4	9.5
20°-30°	4964.9	14.5
30°-40°	6088.9	17.8
40°-50°	6465.5	18.9
50°-60°	5905.4	17.3
60°-70°	4112.5	12.0
70°-80°	1918.1	5.6
80°-90°	331.8	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°	9325.8	27.3
0°-40°	15414.7	45.1
0°-60°	27785.6	81.4
0°-90°	34148.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	34148.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	11829	11829	11829	11829	11829	
5°	11735	11817	11768	11824	11834	###
15°	11382	11461	11443	11512	11522	3214
25°	10670	10764	10746	10826	10806	4917
35°	9615	9726	9726	9791	9738	6017
45°	8254	8378	8391	8445	8401	6365
55°	6577	6709	6742	6753	6574	5874
65°	4598	4739	4405	3503	3415	4536
75°	2336	2483	1810	1254	1201	2497
85°	427	281	220	235	237	551
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	11828.6	11828.6	11828.6	11828.6	11828.6
2.5°	11766.2	11841.3	11791.7	11845.6	11891.0
5°	11735.0	11817.2	11767.6	11824.3	11834.2
7.5°	11683.9	11761.9	11716.5	11778.9	11794.5
10°	11607.3	11683.9	11648.5	11722.2	11736.4
12.5°	11503.8	11581.8	11554.9	11635.7	11645.6
15°	11381.8	11461.3	11442.8	11512.3	11522.2
17.5°	11238.6	11320.9	11299.6	11373.3	11380.4
20°	11067.0	11156.4	11137.9	11224.4	11215.9
22.5°	10874.2	10969.2	10955.0	11041.5	11016.0
25°	10670.0	10763.5	10746.5	10825.9	10806.1
27.5°	10430.3	10533.8	10518.2	10594.8	10563.6
30°	10177.9	10282.8	10277.1	10346.6	10315.4
32.5°	9905.6	10017.6	10011.9	10080.0	10031.8
35°	9614.9	9725.5	9725.5	9790.7	9738.2
37.5°	9307.1	9419.2	9420.6	9483.0	9433.3
40°	8975.3	9087.3	9094.4	9154.0	9108.6
42.5°	8626.4	8748.4	8754.1	8808.0	8765.4
45°	8253.5	8378.3	8391.0	8444.9	8401.0
47.5°	7863.5	7989.7	8001.0	8059.2	8028.0
50°	7457.9	7579.9	7595.5	7643.7	7594.0
52.5°	7029.6	7154.4	7175.7	7205.5	7182.8
55°	6577.3	6709.1	6741.8	6753.1	6574.4
57.5°	6109.3	6244.0	6275.2	6014.3	5439.9
60°	5627.1	5760.4	5790.2	4892.5	4484.1
62.5°	5125.1	5255.6	5288.2	4054.4	3923.9
65°	4597.6	4739.4	4404.7	3502.8	3414.8
67.5°	4055.8	4201.9	3331.2	3002.2	2949.7
70°	3485.7	3633.2	2742.6	2559.7	2546.9
72.5°	2938.3	3047.5	2250.6	1940.0	1633.7
75°	2335.6	2483.1	1809.5	1253.6	1201.1
77.5°	1810.9	1565.6	1092.0	918.9	724.7
80°	1290.5	1046.6	714.7	381.5	360.2
82.5°	818.3	683.5	280.8	287.9	300.6
85°	426.9	280.8	219.8	235.4	236.8
87.5°	137.6	120.5	131.9	130.5	129.0
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)