

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-CLWG-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 (P33385)
Test Lab: INNOVATION CENTER-P3
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: HBLED-LD5-36SE-W-CLWG-UNV-L850-ED3-U
Description: METALUX HIGH BAY LINEAR LED
WIDE DISTRIBUTION WITH CLEAR LENS, WIREGUARD & DOORFRAME
Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 32869.0 lumens
Efficiency: N/A
Efficacy: 141.7 lumens/watt
Spacing Criteria (0/90/45): 1.27 / 1.3 / 1.33
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

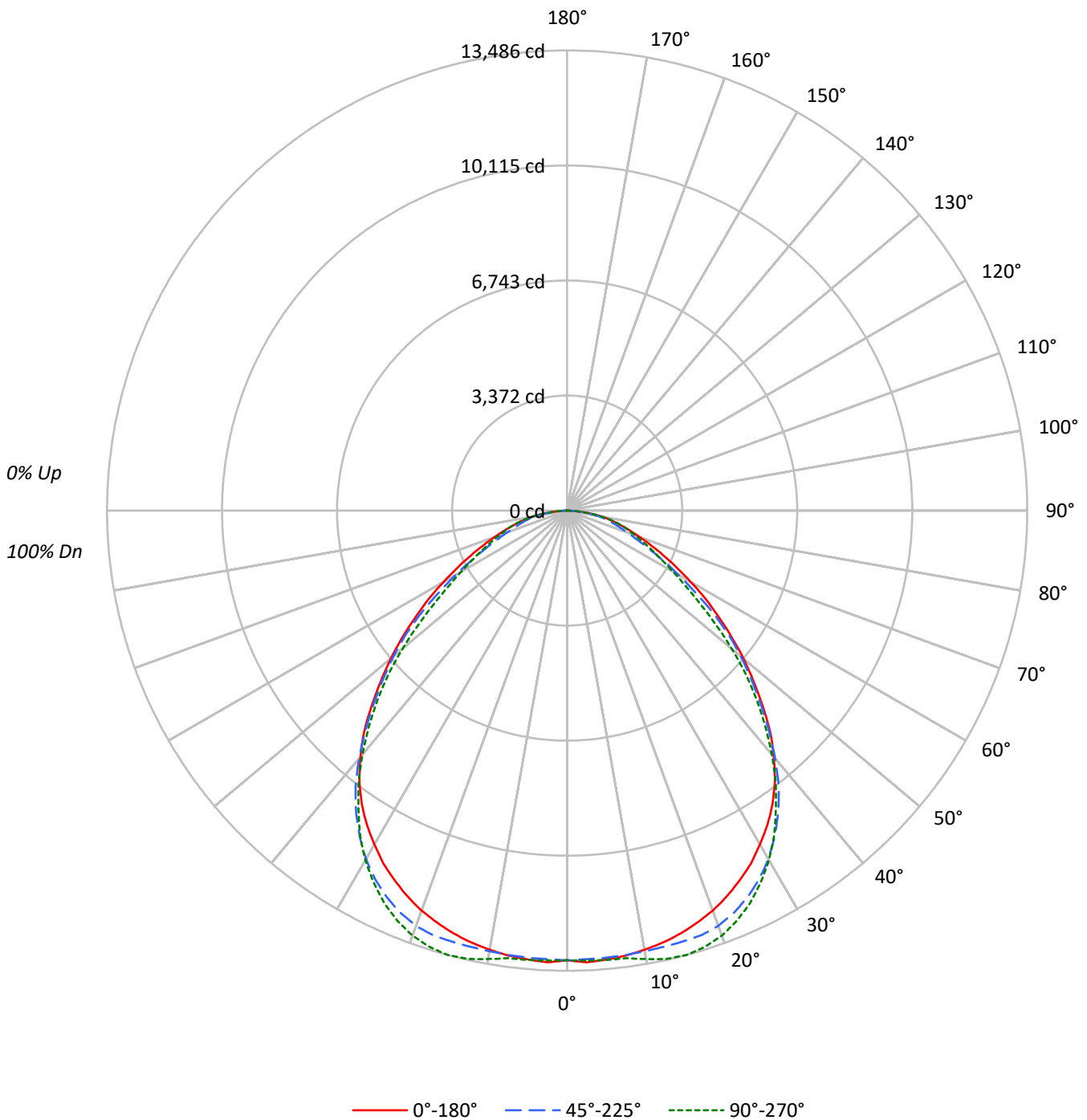
Input Watts (W): 232
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	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	105	102	98	107	103	100	96	99	96	93	95	93	91	92	90	88					86				
2	101	93	87	82	98	91	86	81	88	83	79	85	81	77	82	78	75					73				
3	92	83	75	69	90	81	74	68	78	72	67	76	70	66	73	69	65					63				
4	85	74	66	59	83	73	65	59	70	64	58	68	62	57	66	61	57					55				
5	79	67	58	52	77	65	57	52	63	56	51	61	55	50	60	54	50					48				
6	73	60	52	46	71	59	51	45	58	50	45	56	50	45	54	49	44					42				
7	68	55	46	41	66	54	46	40	53	45	40	51	45	40	50	44	40					38				
8	63	50	42	36	62	50	42	36	48	41	36	47	41	36	46	40	36					34				
9	59	46	38	33	58	46	38	33	45	38	33	43	37	33	42	37	32					31				
10	56	43	35	30	54	42	35	30	41	34	30	40	34	30	39	34	30					28				

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	17733	17733	17733
5°	17837	17764	17851
10°	17853	17914	18234
15°	17875	18212	18785
20°	17863	18545	18978
25°	17754	18562	18834
30°	17550	18316	18374
35°	17237	17723	17510
40°	16557	16659	16396
45°	15427	15265	14955
50°	14125	13897	13185
55°	12687	12217	11148
60°	11252	10108	9623
65°	9914	8398	8734
70°	8866	7288	8318
75°	8306	7087	8412
80°	8086	7164	8007
85°	6455	5667	5877



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1255.5	3.8
10°-20°	3698.1	11.3
20°-30°	5689.1	17.3
30°-40°	6639.5	20.2
40°-50°	6169.9	18.8
50°-60°	4573.3	13.9
60°-70°	2795.7	8.5
70°-80°	1592.4	4.8
80°-90°	455.4	1.4
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°	10642.7	32.4
0°-40°	17282.2	52.6
0°-60°	28025.4	85.3
0°-90°	32869.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	32869.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	13180	13180	13180	13180	13180	
5°	13207	13146	13152	13142	13217	###
15°	12833	12826	13074	13332	13486	3622
25°	11959	12051	12503	12608	12687	5509
35°	10494	10576	10790	10701	10661	6539
45°	8108	8155	8023	7897	7859	6247
55°	5408	5272	5208	4837	4752	4854
65°	3114	2828	2638	2709	2743	3116
75°	1598	1499	1363	1554	1618	1710
85°	418	408	367	381	381	482
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	13179.5	13179.5	13179.5	13179.5	13179.5
2.5°	13250.9	13176.1	13162.5	13131.9	13199.9
5°	13206.7	13145.5	13152.3	13142.1	13216.9
7.5°	13155.7	13111.5	13138.7	13135.3	13233.9
10°	13067.3	13043.5	13111.5	13186.3	13346.1
12.5°	12968.8	12945.0	13094.5	13284.9	13458.3
15°	12832.8	12826.0	13074.1	13332.5	13485.5
17.5°	12662.8	12673.0	13050.3	13271.3	13407.3
20°	12475.8	12492.8	12951.8	13131.9	13254.3
22.5°	12234.5	12292.3	12761.4	12911.0	13006.2
25°	11959.1	12050.9	12503.0	12608.4	12686.6
27.5°	11663.4	11755.2	12183.5	12237.9	12282.1
30°	11296.2	11425.4	11789.2	11796.0	11826.6
32.5°	10922.3	11037.9	11316.6	11286.0	11292.8
35°	10494.0	10575.6	10789.7	10701.3	10660.6
37.5°	10001.1	10045.3	10181.2	10048.7	10041.9
40°	9426.6	9484.4	9484.4	9300.8	9334.8
42.5°	8814.7	8835.1	8750.1	8576.7	8603.9
45°	8107.6	8155.2	8022.6	7896.8	7859.4
47.5°	7407.3	7454.9	7315.5	7169.4	7104.8
50°	6747.8	6724.0	6639.1	6390.9	6299.1
52.5°	6064.6	5989.8	5955.8	5592.0	5486.7
55°	5408.5	5272.5	5207.9	4837.4	4752.4
57.5°	4800.0	4555.2	4432.8	4143.9	4109.9
60°	4181.3	3905.9	3756.4	3569.4	3576.2
62.5°	3620.4	3331.4	3151.3	3096.9	3120.7
65°	3113.9	2828.3	2637.9	2709.3	2743.3
67.5°	2654.9	2420.4	2206.2	2372.8	2406.8
70°	2253.8	2066.8	1852.7	2097.4	2114.4
72.5°	1920.7	1767.7	1587.5	1818.7	1856.1
75°	1597.7	1499.1	1363.2	1553.5	1618.1
77.5°	1315.6	1237.4	1159.2	1274.8	1346.2
80°	1043.6	965.4	924.6	985.8	1033.4
82.5°	737.7	686.7	645.9	690.1	713.9
85°	418.1	407.9	367.1	380.7	380.7
87.5°	95.2	108.8	122.4	112.2	95.2
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)