

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-LD5-60SE-N-UNV-L735-ED4-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 (P23767)
Test Lab: INNOVATION CENTER P2
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: HBLED-LD5-60SE-N-UNV-L735-ED4-U
Description: METALUX HIGH BAY LINEAR LED
Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

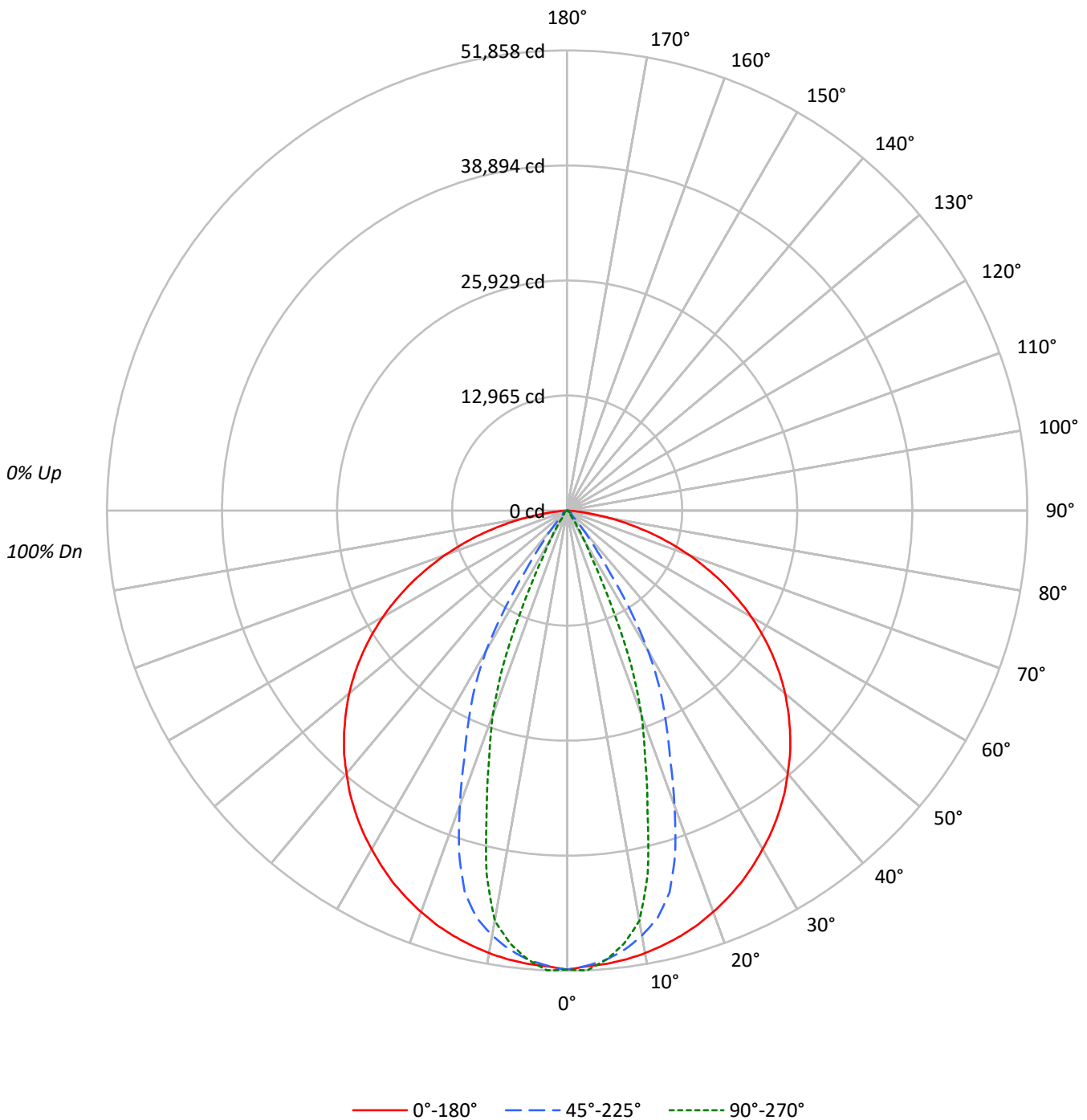
Lumens per Lamp: N/A
Luminaire Lumens: 54985.0 lumens
Efficiency: N/A
Efficacy: 142.4 lumens/watt
Spacing Criteria (0/90/45): 1.27 / 0.62 / 0.77
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

Input Watts (W): 386
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	112	108	105	102	109	106	103	101	102	100	98	98	96	95	95	93	92	90
2	105	98	93	89	102	97	92	88	93	89	86	90	87	84	87	85	82	81
3	98	90	84	79	96	88	83	78	86	81	77	83	79	76	81	77	74	73
4	92	82	76	70	90	81	75	70	79	73	69	77	72	68	75	71	67	66
5	86	76	69	64	84	75	68	63	73	67	63	71	66	62	70	65	62	60
6	81	70	63	58	79	70	63	58	68	62	58	66	61	57	65	60	57	55
7	76	66	58	54	75	65	58	53	63	57	53	62	57	53	61	56	52	51
8	72	61	54	49	71	61	54	49	59	53	49	58	53	49	57	52	49	47
9	68	57	51	46	67	57	50	46	56	50	46	55	49	46	54	49	45	44
10	65	54	47	43	64	53	47	43	53	47	43	52	46	43	51	46	42	41

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	69605	69605	69605
5°	69233	68622	68592
10°	69190	66422	64092
15°	69092	62054	48778
20°	68931	50587	35111
25°	68756	39115	17296
30°	68452	28428	5609
35°	68290	12612	1443
40°	67933	5122	973
45°	67629	1438	1035
50°	67102	1020	1149
55°	66135	1212	491
60°	64503	1351	298
65°	61850	862	352
70°	57459	765	435
75°	50266	575	601
80°	37584	706	858
85°	18616	912	1139



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	4800.8	8.7
10°-20°	12004.5	21.8
20°-30°	13002.7	23.6
30°-40°	9629.1	17.5
40°-50°	6935.4	12.6
50°-60°	4294.3	7.8
60°-70°	2641.0	4.8
70°-80°	1392.2	2.5
80°-90°	285.0	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°	29808.0	54.2
0°-40°	39437.1	71.7
0°-60°	50666.8	92.1
0°-90°	54985.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	54985.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	51732	51732	51732	51732	51732	
5°	51260	51449	50807	50844	50785	###
15°	49601	48449	44549	37884	35017	14002
25°	46313	42422	26347	16575	11650	21340
35°	41576	29310	7678	1806	879	26011
45°	35542	16513	756	546	544	27410
55°	28193	3401	517	468	209	25168
65°	19427	359	271	172	111	19168
75°	9669	84	111	145	116	10213
85°	1206	32	59	89	74	###
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	51732.4	51732.4	51732.4	51732.4	51732.4
2.5°	51400.2	51727.5	51341.1	51629.0	51857.9
5°	51259.9	51449.4	50807.1	50844.0	50784.9
7.5°	51013.8	50969.5	49889.1	49416.6	49209.9
10°	50642.2	50349.3	48616.8	47629.9	46911.3
12.5°	50162.3	49507.7	47029.4	43891.7	41942.6
15°	49601.2	48449.4	44548.8	37884.4	35017.4
17.5°	48931.8	47300.1	40493.1	31751.6	29192.2
20°	48141.8	46018.0	35329.9	27014.2	24521.3
22.5°	47260.8	44457.7	30314.4	22451.6	18895.5
25°	46313.3	42422.5	26347.3	16574.7	11650.3
27.5°	45218.2	39806.4	22626.3	9762.7	5945.7
30°	44059.0	36656.4	18297.4	5251.7	3610.3
32.5°	42890.1	33085.5	12947.2	3280.5	2047.5
35°	41575.9	29310.3	7678.3	1806.4	878.6
37.5°	40205.1	25850.2	4538.1	822.0	563.6
40°	38676.9	22687.8	2916.3	546.3	553.7
42.5°	37200.3	19739.6	1641.5	539.0	548.8
45°	35541.6	16513.2	755.5	546.3	543.9
47.5°	33826.3	13168.7	489.7	551.3	551.3
50°	32056.8	9415.7	487.3	563.6	548.8
52.5°	30188.9	5874.4	507.0	561.1	450.4
55°	28193.1	3401.1	516.8	467.6	209.2
57.5°	26125.8	2005.7	521.7	268.2	118.1
60°	23970.0	1109.9	502.0	199.3	110.7
62.5°	21747.7	529.1	396.2	187.0	108.3
65°	19427.0	359.3	270.7	172.3	110.7
67.5°	17017.7	278.1	214.1	162.4	113.2
70°	14606.0	206.7	194.4	162.4	110.7
72.5°	12154.8	140.3	162.4	164.9	110.7
75°	9669.2	83.7	110.7	145.2	115.7
77.5°	7205.8	51.7	86.1	150.1	140.3
80°	4850.6	44.3	91.1	140.3	110.7
82.5°	2847.4	39.4	88.6	108.3	88.6
85°	1205.9	32.0	59.1	88.6	73.8
87.5°	226.4	27.1	46.8	71.4	64.0
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)