

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-CLI-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 (P23769)  
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-CLI-UNV-L735-ED4-U  
Description: METALUX HIGH BAY LINEAR LED  
Light Source: -  
Ballast/Driver: -

Luminaire Equipment: Sample No.    Condition    Description

**Summary**

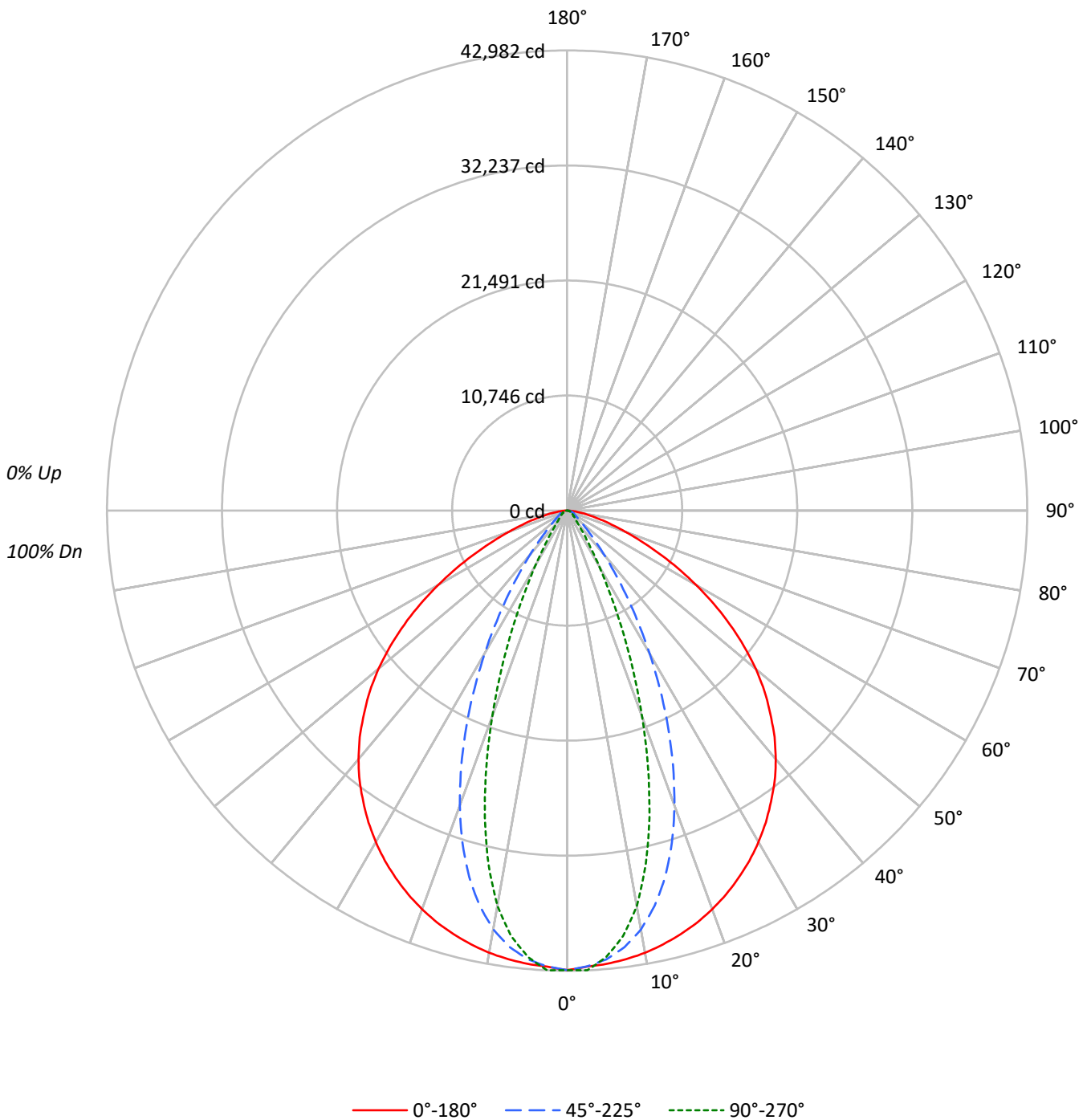
Lumens per Lamp: N/A  
Luminaire Lumens: 46991.0 lumens  
Efficiency: N/A  
Efficacy: 121.7 lumens/watt  
Spacing Criteria (0/90/45): 1.24 / 0.64 / 0.78  
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')  
CIE Type: Direct

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	75	81	77	74	72
4	92	82	75	70	90	81	75	70	79	73	69	77	72	68	75	71	67	65
5	86	76	69	63	84	75	68	63	73	67	62	71	66	62	69	65	61	60
6	81	70	63	58	79	69	62	57	68	62	57	66	61	57	65	60	56	55
7	76	65	58	53	75	64	58	53	63	57	52	62	56	52	60	56	52	50
8	72	61	54	49	70	60	53	49	59	53	48	58	52	48	57	52	48	46
9	68	57	50	45	67	56	50	45	55	49	45	54	49	45	53	48	45	43
10	64	53	47	42	63	53	46	42	52	46	42	51	46	42	50	45	42	40

**AVERAGE LUMINANCE (cd/sqm):**

	0°	45°	90°
0°	57752	57752	57752
5°	57405	56834	56535
10°	57309	54260	51202
15°	57078	49322	41351
20°	56736	41968	29308
25°	56228	33093	17708
30°	55545	23884	9101
35°	54542	15615	4545
40°	53249	9379	2653
45°	51037	5601	1983
50°	48137	3663	1666
55°	43566	2779	1453
60°	37439	2366	1326
65°	30115	2159	1252
70°	22688	2312	1245
75°	16689	2198	1281
80°	12210	2190	1402
85°	9144	2652	1815



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	3952.9	8.4
10°-20°	9834.1	20.9
20°-30°	10892.8	23.2
30°-40°	8727.0	18.6
40°-50°	6230.0	13.3
50°-60°	4001.6	8.5
60°-70°	2168.6	4.6
70°-80°	926.9	2.0
80°-90°	257.0	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°	24679.8	52.5
0°-40°	33406.9	71.1
0°-60°	43638.5	92.9
0°-90°	46991.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	46991.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	42923	42923	42923	42923	42923	
5°	42502	42661	42080	41946	41858	###
15°	40976	39694	35408	31291	29686	11561
25°	37875	33396	22291	14523	11928	17448
35°	33206	24018	9506	3834	2767	20762
45°	26822	13865	2944	1252	1042	20674
55°	18572	6199	1185	728	619	16551
65°	9459	2546	678	468	393	9472
75°	3210	931	423	294	246	3567
85°	592	246	172	142	118	723
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	42922.9	42922.9	42922.9	42922.9	42922.9
2.5°	42640.3	42907.1	42619.9	42798.5	42981.7
5°	42502.4	42660.6	42079.6	41946.2	41858.1
7.5°	42262.7	42217.5	41125.6	40418.0	40076.6
10°	41946.2	41580.0	39714.9	38159.5	37476.7
12.5°	41494.1	40739.0	37804.5	35073.5	33916.0
15°	40976.4	39694.5	35408.1	31291.2	29686.1
17.5°	40356.9	38473.7	32543.7	27235.4	25117.1
20°	39624.4	36999.7	29310.8	22926.4	20469.0
22.5°	38806.0	35299.6	25849.6	18631.0	15994.9
25°	37874.6	33396.0	22291.1	14523.2	11927.8
27.5°	36868.6	31282.2	18753.0	10851.7	8484.7
30°	35751.7	28994.3	15373.2	7824.5	5857.6
32.5°	34533.2	26561.7	12233.0	5502.7	4006.1
35°	33206.1	24018.4	9506.5	3834.3	2767.2
37.5°	31847.4	21423.0	7180.2	2710.7	1985.0
40°	30316.9	18836.7	5339.9	1985.0	1510.2
42.5°	28673.3	16300.1	3951.8	1528.3	1223.1
45°	26821.7	13865.3	2943.5	1252.5	1042.2
47.5°	25026.7	11595.5	2235.9	1067.1	906.6
50°	22996.5	9547.2	1749.8	931.4	795.8
52.5°	20842.0	7745.4	1419.8	820.7	700.8
55°	18572.2	6199.0	1184.6	728.0	619.4
57.5°	16273.0	4910.4	1012.8	648.8	551.6
60°	13912.7	3926.9	879.4	581.0	492.8
62.5°	11609.0	3140.2	768.7	522.2	440.8
65°	9459.0	2545.6	678.2	468.0	393.4
67.5°	7471.8	2012.1	633.0	420.5	354.9
70°	5767.2	1566.7	587.8	375.3	316.5
72.5°	4370.1	1202.7	520.0	334.6	280.3
75°	3210.3	931.4	422.8	293.9	246.4
77.5°	2296.9	716.7	343.6	255.5	212.5
80°	1575.8	533.5	282.6	219.3	180.9
82.5°	1024.1	377.5	228.3	180.9	149.2
85°	592.3	246.4	171.8	142.4	117.6
87.5°	255.5	135.6	117.6	106.3	90.4
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)