

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-W-CLI-UNV-L740-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 (P23766)  
Test Lab: INNOVATION CENTER P2  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: METALUX  
Catalog Number: HBLED-LD5-60SE-W-CLI-UNV-L740-ED4-U  
Description: METALUX HIGH BAY LINEAR LED  
Light Source: -  
Ballast/Driver: -

Luminaire Equipment: Sample No.    Condition    Description

**Summary**

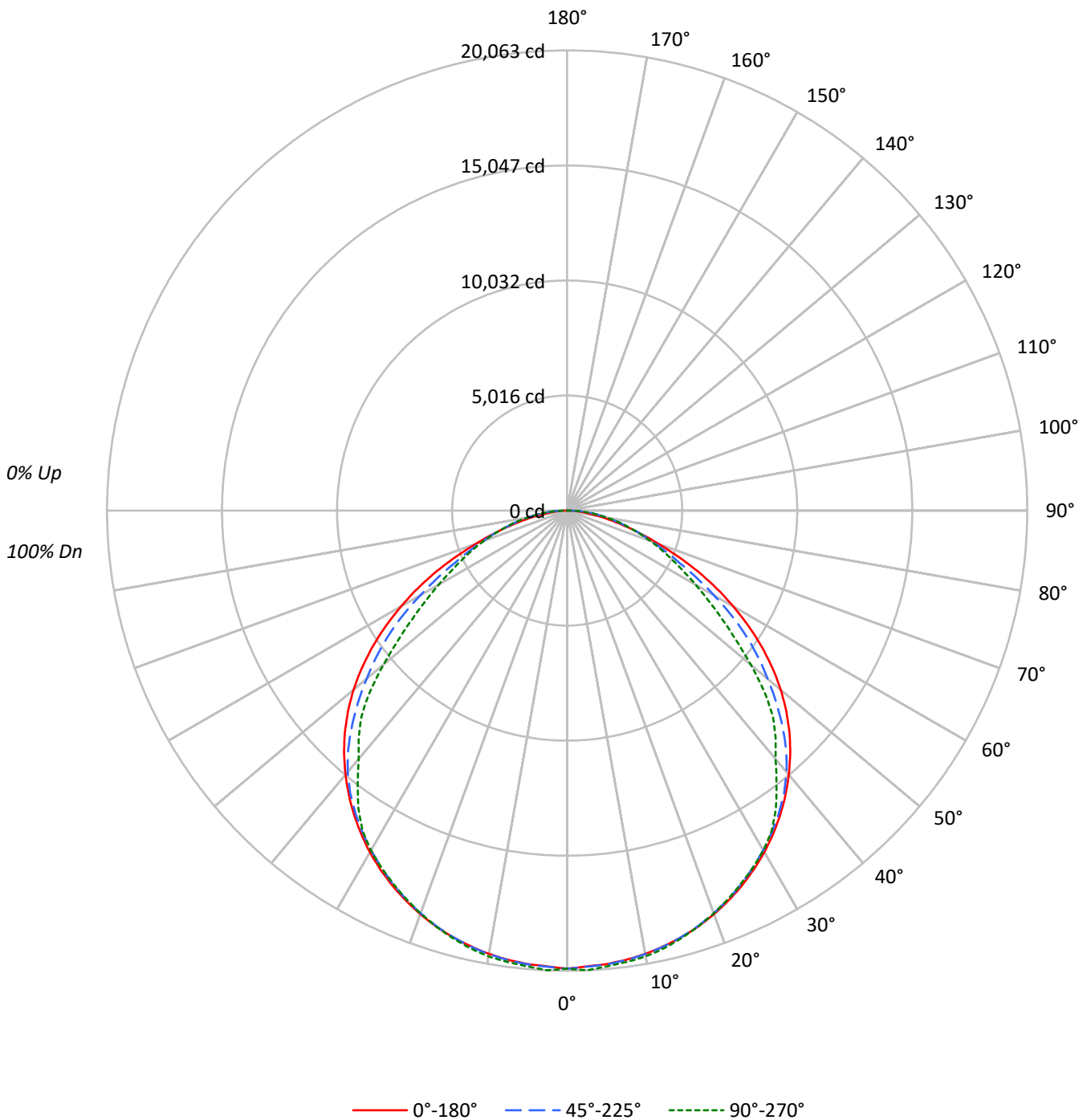
Lumens per Lamp: N/A  
Luminaire Lumens: 53658.0 lumens  
Efficiency: N/A  
Efficacy: 139.0 lumens/watt  
Spacing Criteria (0/90/45): 1.28 / 1.27 / 1.37  
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')  
CIE Type: Direct

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	109	105	101	97	107	102	99	95	98	95	92	94	92	90	91	89	87	85
2	100	92	85	80	97	90	84	79	86	81	77	83	79	75	80	77	74	71
3	91	81	73	67	89	79	72	66	77	70	65	74	68	64	71	67	63	61
4	84	72	64	57	81	71	63	57	68	61	56	66	60	55	64	59	54	52
5	77	65	56	49	75	63	55	49	61	54	48	59	53	48	58	52	47	45
6	71	58	49	43	69	57	49	43	55	48	43	54	47	42	52	46	42	40
7	66	53	44	38	64	52	44	38	50	43	38	49	42	37	48	42	37	35
8	62	48	40	34	60	48	40	34	46	39	34	45	38	34	44	38	33	31
9	58	44	36	31	56	44	36	31	43	35	30	41	35	30	40	35	30	28
10	54	41	33	28	53	40	33	28	39	32	28	38	32	28	38	32	27	26

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

	0°	45°	90°
0°	26872	26872	26872
5°	26800	26819	26939
10°	26815	26828	26969
15°	26818	26814	26878
20°	26811	26749	26756
25°	26770	26671	26639
30°	26727	26566	26581
35°	26602	26437	26062
40°	26412	26143	24825
45°	26077	25242	24138
50°	25449	23899	21861
55°	24291	22351	19330
60°	22543	19943	17433
65°	20037	17266	16030
70°	16628	15431	15110
75°	13449	14122	14296
80°	10682	13505	13450
85°	8366	14508	13843



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	1894.0	3.5
10°-20°	5448.0	10.2
20°-30°	8307.2	15.5
30°-40°	10050.5	18.7
40°-50°	10180.3	19.0
50°-60°	8414.2	15.7
60°-70°	5557.4	10.4
70°-80°	2897.9	5.4
80°-90°	908.5	1.7
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°	15649.2	29.2
0°-40°	25699.7	47.9
0°-60°	44294.2	82.5
0°-90°	53658.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	53658.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	19972	19972	19972	19972	19972	
5°	19842	19962	19857	19943	19945	###
15°	19252	19351	19250	19310	19296	5437
25°	18032	18104	17965	18011	17944	8315
35°	16196	16217	16095	16073	15867	10130
45°	13704	13669	13266	12853	12686	10553
55°	10355	10202	9528	8602	8240	9229
65°	6294	6111	5423	5071	5035	6216
75°	2587	2632	2716	2752	2750	2818
85°	542	698	940	933	897	658
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	19971.8	19971.8	19971.8	19971.8	19971.8
2.5°	19887.9	20005.4	19907.1	19993.4	20062.9
5°	19842.3	19962.2	19856.7	19943.0	19945.4
7.5°	19753.6	19873.5	19765.6	19851.9	19849.5
10°	19626.6	19739.2	19636.2	19739.2	19739.2
12.5°	19453.9	19564.2	19463.5	19559.4	19545.0
15°	19252.5	19350.8	19250.1	19310.1	19295.7
17.5°	19015.2	19103.9	18991.2	19041.6	19012.8
20°	18725.1	18806.6	18681.9	18746.6	18686.7
22.5°	18399.0	18475.7	18348.7	18396.6	18329.5
25°	18032.2	18104.1	17965.0	18010.6	17943.5
27.5°	17636.6	17701.3	17545.5	17600.6	17547.9
30°	17202.6	17233.8	17099.5	17171.4	17109.1
32.5°	16718.3	16737.5	16620.0	16684.7	16579.2
35°	16195.6	16217.2	16094.9	16073.4	15867.2
37.5°	15637.0	15646.6	15531.5	15337.3	14996.8
40°	15037.6	15032.8	14884.2	14435.8	14133.7
42.5°	14397.4	14395.0	14133.7	13623.0	13450.4
45°	13704.5	13668.6	13265.8	12853.4	12685.6
47.5°	12961.3	12922.9	12359.5	12031.0	11649.8
50°	12158.1	12091.0	11417.3	10968.9	10443.8
52.5°	11292.6	11189.5	10503.8	9779.7	9283.4
55°	10355.1	10201.7	9528.0	8602.5	8240.5
57.5°	9379.3	9151.5	8497.0	7595.5	7300.6
60°	8377.1	8123.0	7410.9	6670.1	6478.3
62.5°	7346.2	7094.4	6368.0	5809.3	5703.8
65°	6293.6	6111.4	5423.3	5070.9	5034.9
67.5°	5214.7	5150.0	4624.9	4445.1	4430.7
70°	4226.9	4214.9	3922.4	3831.3	3840.9
72.5°	3378.2	3363.8	3320.6	3275.1	3277.5
75°	2587.0	2632.5	2716.5	2752.4	2750.0
77.5°	1930.0	2023.6	2201.0	2272.9	2260.9
80°	1378.6	1517.7	1743.0	1810.2	1735.8
82.5°	918.3	1064.5	1330.7	1340.2	1280.3
85°	541.9	697.7	939.8	932.7	896.7
87.5°	268.5	419.6	563.4	539.5	515.5
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)