

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-WG-UNV-L835-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 (P33336)  
Test Lab: INNOVATION CENTER-P3  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: METALUX  
Catalog Number: HBLED-LD5-60SE-W-WG-UNV-L835-ED4-U  
Description: METALUX HIGH BAY LINEAR LED  
Light Source: -  
Ballast/Driver: -

Luminaire Equipment: Sample No.    Condition    Description

**Summary**

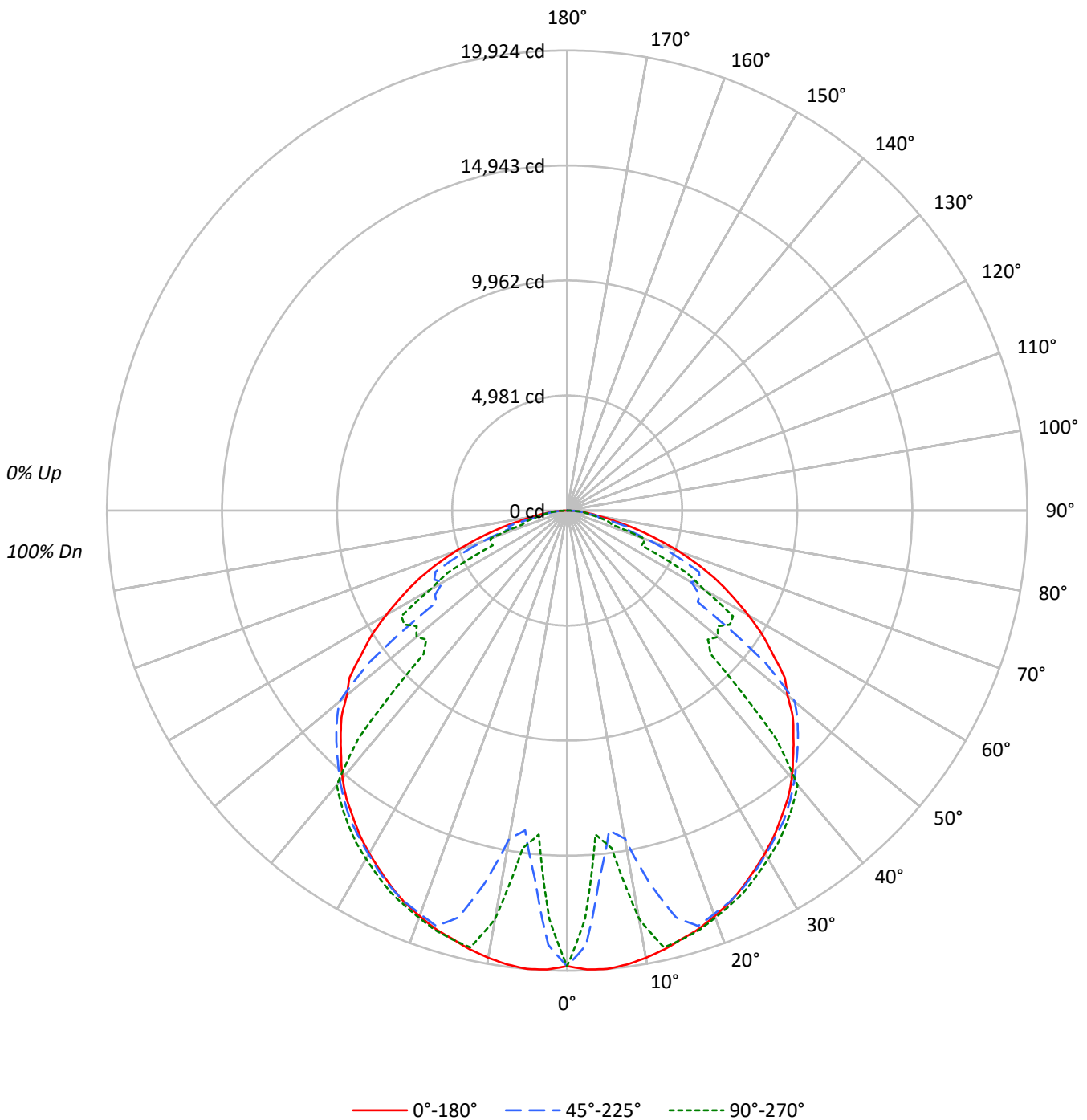
Lumens per Lamp: N/A  
Luminaire Lumens: 52259.0 lumens  
Efficiency: N/A  
Efficacy: 135.4 lumens/watt  
Spacing Criteria (0/90/45): 1.29 / 1.31 / 1.41  
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')  
CIE Type: Direct

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	103	99	96	98	95	93	95	92	90	91	89	87	85
2	100	92	85	80	97	90	84	79	87	82	77	83	79	75	80	77	74	72
3	91	81	73	67	89	79	72	66	76	70	65	74	68	64	71	67	63	61
4	84	72	63	57	81	71	63	56	68	61	56	66	60	55	64	58	54	52
5	77	64	55	49	75	63	55	49	61	54	48	59	53	48	57	52	47	45
6	71	58	49	43	69	57	49	42	55	48	42	53	47	42	52	46	41	39
7	66	52	44	38	64	52	43	38	50	43	37	49	42	37	47	41	37	35
8	61	48	39	34	60	47	39	33	46	38	33	44	38	33	43	37	33	31
9	57	44	36	30	56	43	35	30	42	35	30	41	34	30	40	34	30	28
10	53	40	32	27	52	40	32	27	39	32	27	38	31	27	37	31	27	25

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

	0°	45°	90°
0°	26541	26541	26541
5°	26910	21619	19013
10°	26864	19716	24521
15°	26745	25411	26768
20°	26745	26623	26860
25°	26697	26757	27002
30°	26620	26708	27052
35°	26578	26872	27186
40°	26581	26871	27256
45°	26373	26889	16710
50°	26074	26943	17809
55°	25524	16201	20185
60°	24348	16700	18483
65°	22814	20050	11309
70°	20145	15190	13863
75°	16051	13807	9613
80°	11057	9979	8261
85°	10596	9213	8739



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	1577.4	3.0
10°-20°	4941.8	9.5
20°-30°	8130.2	15.6
30°-40°	10222.7	19.6
40°-50°	10025.9	19.2
50°-60°	8307.0	15.9
60°-70°	5859.1	11.2
70°-80°	2556.3	4.9
80°-90°	638.7	1.2
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°	14649.4	28.0
0°-40°	24872.1	47.6
0°-60°	43205.0	82.7
0°-90°	52259.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	52259.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	19726	19726	19726	19726	19726	
5°	19924	18544	16006	14513	14077	###
15°	19200	13334	18242	19276	19217	5429
25°	17983	16454	18023	18143	18188	8289
35°	16181	16172	16360	16469	16551	10138
45°	13860	13902	14131	12515	8782	10698
55°	10881	11237	6906	7852	8605	9735
65°	7166	7588	6298	4845	3552	7046
75°	3088	3026	2656	1736	1849	3311
85°	686	611	597	571	566	712
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	19726.1	19726.1	19726.1	19726.1	19726.1
2.5°	19888.8	19476.0	18820.3	17994.8	17702.3
5°	19924.2	18544.3	16006.4	14513.3	14076.9
7.5°	19822.8	16853.1	13954.3	14268.0	14730.3
10°	19662.4	15367.1	14430.7	16978.2	17947.6
12.5°	19457.2	14046.2	16532.4	19178.8	19372.3
15°	19200.1	13333.9	18242.4	19275.6	19216.6
17.5°	18983.1	13751.4	18855.7	19082.1	19039.7
20°	18678.8	14584.0	18593.9	18775.5	18759.0
22.5°	18372.2	15570.0	18346.2	18475.9	18475.9
25°	17983.0	16454.5	18023.1	18143.4	18188.2
27.5°	17556.0	16964.0	17619.7	17718.8	17799.0
30°	17133.8	17037.1	17190.4	17317.8	17412.2
32.5°	16688.0	16650.3	16770.6	16905.0	17025.3
35°	16180.9	16171.5	16360.2	16468.7	16551.2
37.5°	15704.4	15671.4	15846.0	15996.9	16060.6
40°	15133.6	15133.6	15298.7	15452.1	15518.1
42.5°	14482.6	14574.6	14702.0	14860.0	13383.4
45°	13859.9	13902.4	14131.2	12515.4	8781.6
47.5°	13260.8	13315.0	13532.0	8045.6	8265.0
50°	12456.5	12701.8	12871.6	8022.0	8507.9
52.5°	11869.1	11975.3	10805.4	7941.8	8215.5
55°	10880.8	11237.0	6906.4	7852.2	8604.7
57.5°	10036.4	10295.9	6790.8	8045.6	8512.7
60°	9048.1	9444.4	6205.8	7762.6	6868.6
62.5°	8099.9	8477.3	6479.4	6109.1	5816.6
65°	7165.8	7588.0	6297.8	4844.8	3552.3
67.5°	6142.1	5748.2	5024.1	3413.1	3592.3
70°	5120.8	4014.6	3861.2	3816.4	3523.9
72.5°	4071.2	2929.5	2563.9	2863.5	2049.7
75°	3087.6	3026.3	2655.9	1736.0	1849.2
77.5°	2141.7	2184.2	1422.3	1693.6	1405.8
80°	1427.0	1236.0	1287.9	1080.3	1066.1
82.5°	988.3	1009.5	846.8	820.8	832.6
85°	686.4	610.9	596.8	570.8	566.1
87.5°	228.8	266.5	247.7	224.1	238.2
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)