

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-LD5-15SE-W-AWG-UNV-L740-ED1-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 (P23764)
Test Lab: INNOVATION CENTER P2
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: HBLED-LD5-15SE-W-AWG-UNV-L740-ED1-U
Description: METALUX HIGH BAY LINEAR LED
Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

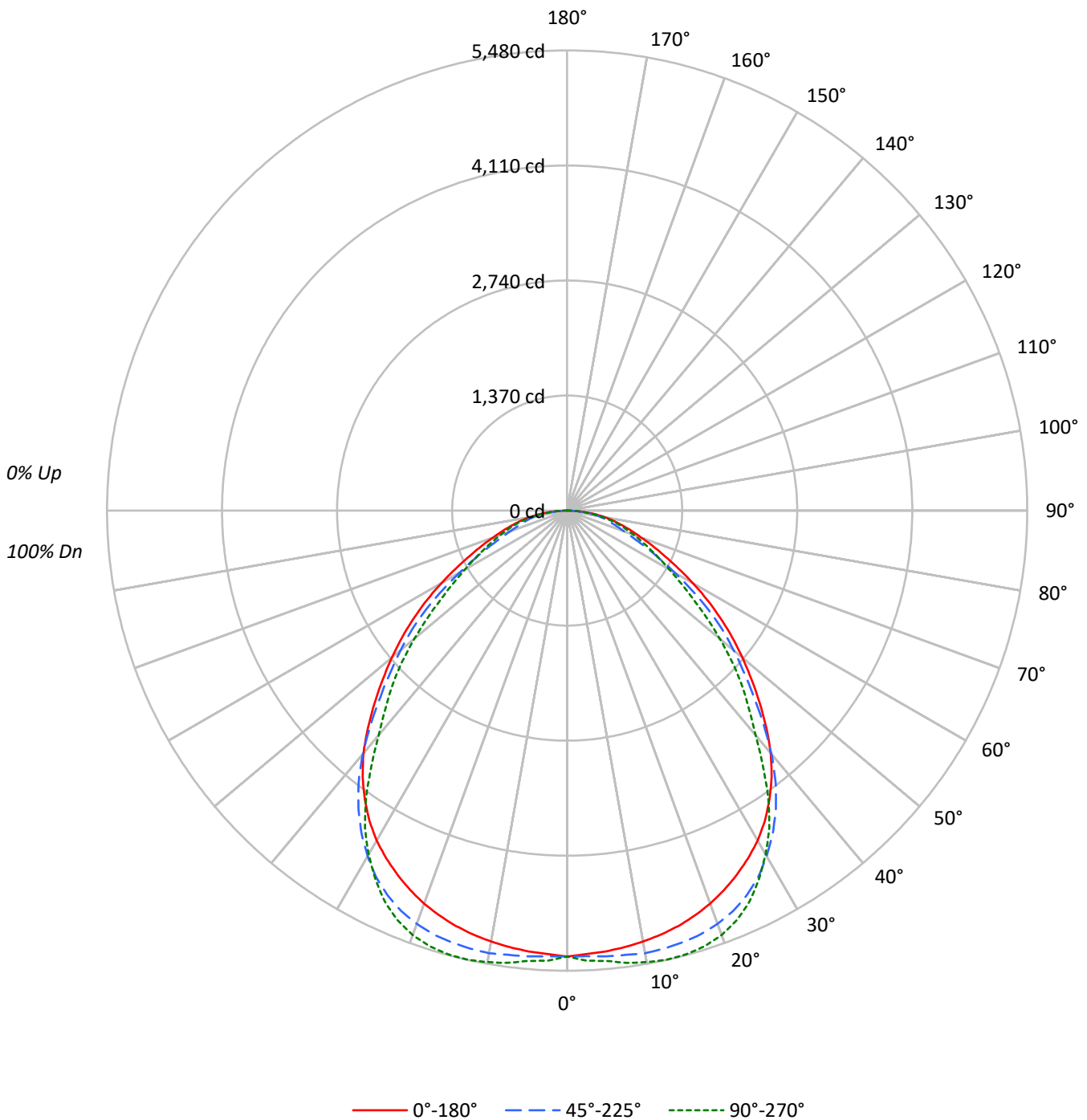
Lumens per Lamp: N/A
Luminaire Lumens: 13164.0 lumens
Efficiency: N/A
Efficacy: 138.3 lumens/watt
Spacing Criteria (0/90/45): 1.26 / 1.28 / 1.32
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

Input Watts (W): 95.2
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	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	110	105	101	98	107	103	100	96	99	96	93	95	93	90	91	90	88	86																												
2	101	93	87	82	98	91	85	81	88	83	79	85	81	77	82	78	75	73																												
3	92	83	75	69	90	81	74	69	78	72	67	76	70	66	73	69	65	63																												
4	85	74	66	60	83	73	65	59	70	64	58	68	62	58	66	61	57	55																												
5	79	67	58	52	77	66	58	52	63	56	51	62	55	51	60	54	50	48																												
6	73	60	52	46	71	59	51	46	58	51	45	56	50	45	54	49	44	42																												
7	68	55	47	41	66	54	46	41	53	46	40	51	45	40	50	44	40	38																												
8	63	50	42	37	62	50	42	37	48	41	36	47	41	36	46	40	36	34																												
9	59	46	38	33	58	46	38	33	45	38	33	44	37	33	43	37	33	31																												
10	56	43	35	30	54	42	35	30	41	35	30	40	34	30	40	34	30	28																												

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	7145	7145	7145
5°	7117	7197	7270
10°	7119	7312	7460
15°	7133	7414	7622
20°	7131	7499	7700
25°	7100	7509	7630
30°	7048	7383	7345
35°	6899	7116	6857
40°	6629	6648	6130
45°	6170	5993	5604
50°	5703	5420	4966
55°	5221	4803	4285
60°	4655	3986	3784
65°	4083	3281	3477
70°	3687	2826	3311
75°	3523	2770	3302
80°	3552	2933	3221
85°	3146	2686	2811



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	510.1	3.9
10°-20°	1503.3	11.4
20°-30°	2305.8	17.5
30°-40°	2652.0	20.1
40°-50°	2418.8	18.4
50°-60°	1812.9	13.8
60°-70°	1115.2	8.5
70°-80°	639.1	4.9
80°-90°	206.9	1.6
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°	4319.2	32.8
0°-40°	6971.2	53.0
0°-60°	11202.9	85.1
0°-90°	13164.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	13164.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	5310	5310	5310	5310	5310	
5°	5270	5323	5328	5372	5383	501
15°	5121	5234	5322	5436	5472	1445
25°	4783	4920	5058	5136	5140	2204
35°	4200	4282	4333	4262	4175	2619
45°	3242	3313	3150	2987	2945	2502
55°	2226	2143	2048	1867	1827	1988
65°	1282	1147	1030	1062	1092	1290
75°	678	607	533	610	635	725
85°	204	192	174	184	182	227
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	5310.2	5310.2	5310.2	5310.2	5310.2
2.5°	5285.2	5323.1	5310.9	5342.1	5365.1
5°	5269.6	5323.1	5328.5	5372.5	5382.7
7.5°	5243.2	5313.0	5337.3	5415.2	5432.8
10°	5210.7	5294.7	5352.2	5436.2	5459.9
12.5°	5171.5	5268.9	5342.1	5445.7	5479.5
15°	5120.7	5234.4	5322.4	5436.2	5472.1
17.5°	5056.3	5188.4	5291.3	5403.0	5440.2
20°	4980.5	5120.0	5237.1	5351.6	5378.0
22.5°	4889.1	5029.3	5162.6	5265.6	5279.8
25°	4782.8	4920.3	5057.7	5135.6	5139.6
27.5°	4667.0	4795.0	4923.6	4965.6	4947.3
30°	4536.4	4650.8	4752.3	4761.1	4727.3
32.5°	4381.3	4484.2	4556.7	4537.7	4480.8
35°	4199.9	4281.8	4332.6	4261.5	4174.8
37.5°	4000.8	4062.4	4079.3	3925.0	3826.1
40°	3774.0	3826.8	3784.8	3570.2	3490.3
42.5°	3512.6	3573.6	3465.9	3254.0	3205.2
45°	3242.5	3312.9	3149.7	2987.2	2945.2
47.5°	2977.7	3042.1	2857.2	2726.6	2664.3
50°	2724.5	2752.3	2589.1	2441.5	2372.4
52.5°	2475.4	2447.6	2331.8	2148.3	2087.4
55°	2225.5	2142.9	2047.5	1866.7	1826.7
57.5°	1975.0	1859.9	1755.6	1616.8	1601.3
60°	1729.9	1588.4	1481.4	1398.8	1406.3
62.5°	1496.3	1352.1	1237.7	1211.3	1239.7
65°	1282.4	1147.0	1030.5	1062.3	1092.1
67.5°	1104.3	974.3	855.8	937.1	960.8
70°	937.1	832.1	718.4	823.3	841.6
72.5°	803.7	714.3	615.5	717.7	733.3
75°	677.7	607.3	532.9	610.0	635.1
77.5°	568.1	509.8	459.1	504.4	531.5
80°	458.4	408.9	378.5	398.8	415.7
82.5°	335.8	304.0	281.7	290.5	293.2
85°	203.8	192.3	174.0	183.5	182.1
87.5°	67.0	76.5	80.6	72.4	68.4
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)