

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-A-UNV-L750-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 (P23761)
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-A-UNV-L750-ED1-U
Description: METALUX HIGH BAY LINEAR LED
Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

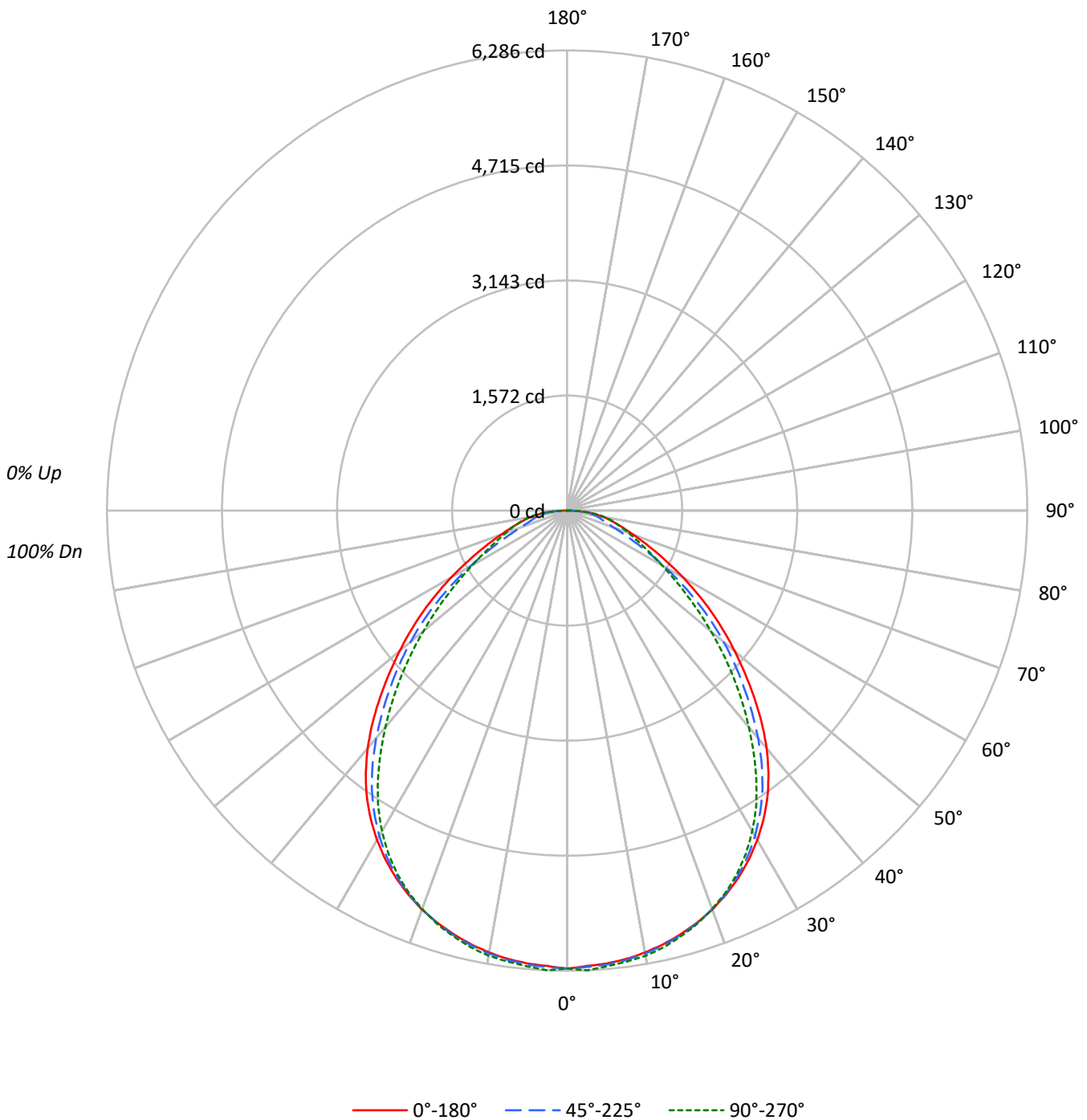
Lumens per Lamp: N/A
Luminaire Lumens: 14370.0 lumens
Efficiency: N/A
Efficacy: 150.9 lumens/watt
Spacing Criteria (0/90/45): 1.23 / 1.2 / 1.27
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

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	0		
RCR																										
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100					100			
1	110	105	101	98	107	103	100	96	99	96	93	95	93	90	91	90	88	86					86			
2	101	93	87	82	98	91	86	81	88	83	79	85	81	77	82	78	75	73					73			
3	93	83	75	70	90	81	75	69	79	73	68	76	71	67	73	69	65	63					63			
4	85	74	66	60	83	73	65	60	71	64	59	68	63	58	66	61	57	55					55			
5	79	67	59	52	77	66	58	52	64	57	52	62	56	51	60	55	51	49					49			
6	73	61	52	46	72	60	52	46	58	51	46	56	50	45	55	49	45	43					43			
7	68	55	47	41	67	55	47	41	53	46	41	52	45	41	50	45	40	38					38			
8	64	51	43	37	62	50	42	37	49	42	37	48	41	37	47	41	36	35					35			
9	60	47	39	34	58	46	39	34	45	38	33	44	38	33	43	37	33	31					31			
10	56	43	36	31	55	43	36	31	42	35	31	41	35	30	40	34	30	29					29			

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	8417	8417	8417
5°	8387	8406	8440
10°	8375	8394	8437
15°	8347	8364	8383
20°	8303	8297	8291
25°	8213	8185	8139
30°	8071	7974	7858
35°	7837	7640	7405
40°	7447	7127	6785
45°	6880	6496	6102
50°	6254	5849	5368
55°	5623	5064	4640
60°	4921	4138	4027
65°	4243	3254	3634
70°	3783	2656	3502
75°	3623	2593	3660
80°	3919	3067	4078
85°	4400	3693	4443



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	592.9	4.1
10°-20°	1696.7	11.8
20°-30°	2538.2	17.7
30°-40°	2895.8	20.2
40°-50°	2636.0	18.3
50°-60°	1935.6	13.5
60°-70°	1142.9	8.0
70°-80°	655.0	4.6
80°-90°	276.9	1.9
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°	4827.8	33.6
0°-40°	7723.6	53.7
0°-60°	12295.2	85.6
0°-90°	14370.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	14370.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	6256	6256	6256	6256	6256	
5°	6210	6248	6224	6248	6249	590
15°	5992	6026	6004	6026	6018	1691
25°	5532	5552	5513	5511	5482	2547
35°	4771	4748	4651	4572	4508	2973
45°	3616	3594	3414	3261	3207	2786
55°	2397	2286	2159	2002	1978	2144
65°	1333	1163	1022	1094	1142	1341
75°	697	598	499	650	704	751
85°	285	263	239	282	288	298
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	6255.5	6255.5	6255.5	6255.5	6255.5
2.5°	6226.6	6262.6	6240.0	6264.7	6285.8
5°	6209.6	6248.4	6223.8	6248.4	6249.2
7.5°	6178.6	6214.6	6190.6	6217.4	6214.6
10°	6129.9	6165.9	6144.0	6173.0	6175.1
12.5°	6067.8	6102.4	6079.8	6113.0	6107.4
15°	5992.4	6025.5	6004.4	6025.5	6018.5
17.5°	5903.5	5933.8	5906.3	5929.6	5917.6
20°	5799.1	5824.5	5794.8	5816.7	5790.6
22.5°	5674.2	5696.8	5665.7	5677.7	5650.9
25°	5532.4	5552.1	5513.3	5511.2	5482.3
27.5°	5374.4	5384.9	5335.6	5318.6	5285.5
30°	5195.2	5198.0	5132.4	5100.6	5057.6
32.5°	4994.1	4987.0	4903.1	4855.8	4802.9
35°	4771.2	4747.9	4651.2	4571.5	4508.0
37.5°	4519.3	4482.6	4366.9	4249.1	4188.4
40°	4239.9	4196.9	4057.9	3911.9	3863.2
42.5°	3935.9	3899.2	3735.5	3583.1	3535.2
45°	3615.6	3594.4	3413.8	3260.7	3207.1
47.5°	3295.3	3279.8	3103.4	2947.5	2882.6
50°	2987.7	2953.9	2794.4	2623.7	2564.4
52.5°	2689.3	2620.2	2479.8	2304.8	2261.1
55°	2397.2	2286.5	2158.8	2002.2	1978.2
57.5°	2108.0	1964.8	1840.6	1723.5	1722.8
60°	1828.6	1664.9	1537.9	1476.6	1496.3
62.5°	1566.9	1399.0	1261.4	1265.6	1301.6
65°	1332.7	1163.3	1022.2	1093.5	1141.5
67.5°	1131.6	970.0	826.8	959.5	1005.3
70°	961.6	815.5	675.1	840.9	890.3
72.5°	818.4	695.6	569.3	742.2	792.3
75°	697.0	597.5	498.8	650.5	704.1
77.5°	598.2	510.1	447.3	563.0	618.7
80°	505.8	428.2	395.8	478.3	526.3
82.5°	400.7	347.1	328.0	388.7	413.4
85°	285.0	263.1	239.2	282.2	287.8
87.5°	156.6	162.3	134.0	162.3	163.0
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)