

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-CLWG-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 (P33385)
Test Lab: INNOVATION CENTER-P3
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: HBLED-LD5-15SE-W-CLWG-UNV-L750-ED1-U
Description: METALUX HIGH BAY LINEAR LED
WIDE DISTRIBUTION WITH CLEAR LENS, WIREGUARD & DOORFRAME
Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

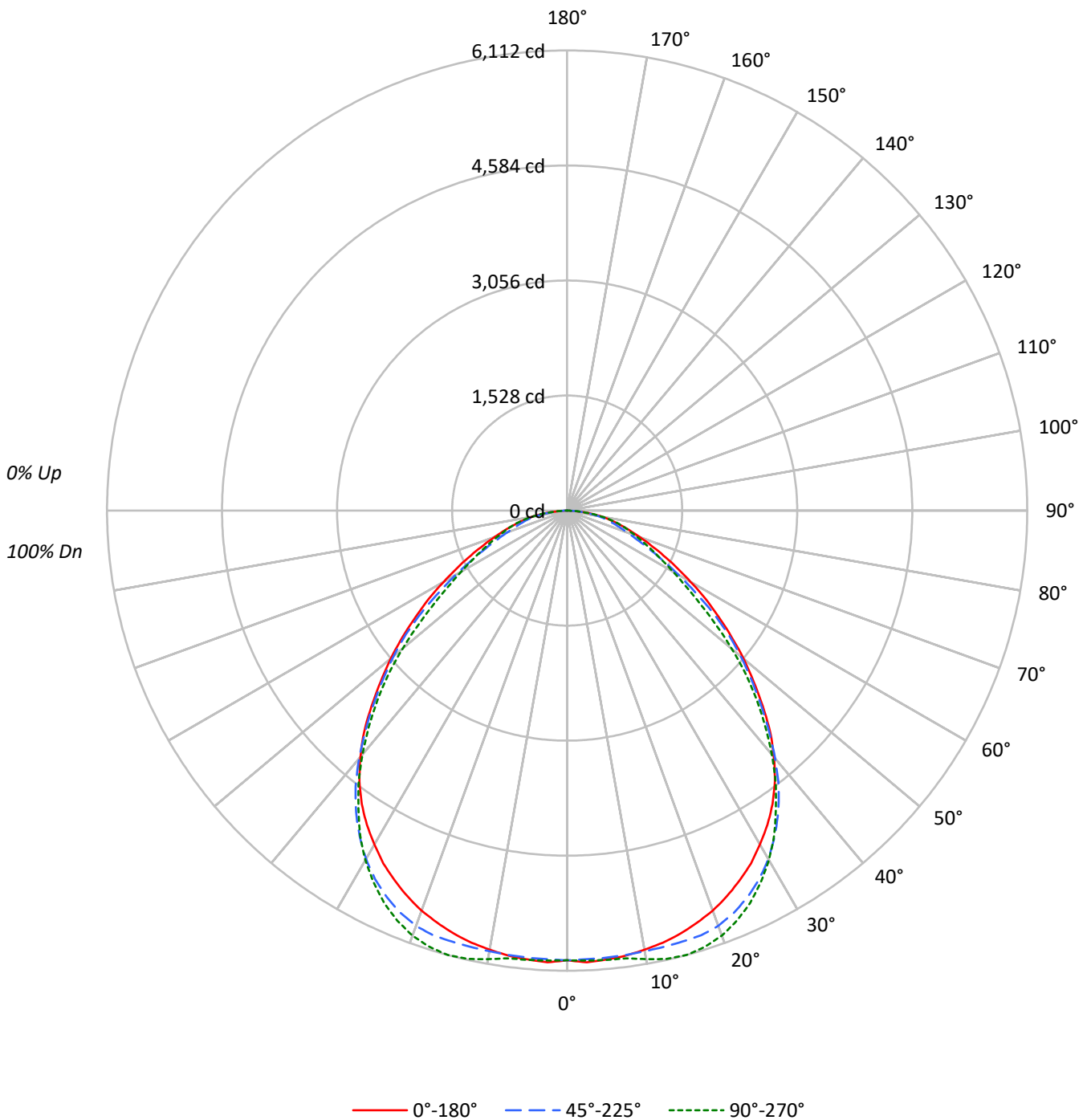
Lumens per Lamp: N/A
Luminaire Lumens: 14897.0 lumens
Efficiency: N/A
Efficacy: 156.5 lumens/watt
Spacing Criteria (0/90/45): 1.27 / 1.3 / 1.33
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

Input Watts (W): 95.2
Input Voltage (V): NR
Input Current (A_{in}): 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	102	98	107	103	100	96	99	96	93	95	93	91	92	90	88					86				
2	101	93	87	82	98	91	86	81	88	83	79	85	81	77	82	78	75					73				
3	92	83	75	69	90	81	74	68	78	72	67	76	70	66	73	69	65					63				
4	85	74	66	59	83	73	65	59	70	64	58	68	62	57	66	61	57					55				
5	79	67	58	52	77	65	57	52	63	56	51	61	55	50	60	54	50					48				
6	73	60	52	46	71	59	51	45	58	50	45	56	50	45	54	49	44					42				
7	68	55	46	41	66	54	46	40	53	45	40	51	45	40	50	44	40					38				
8	63	50	42	36	62	50	42	36	48	41	36	47	41	36	46	40	36					34				
9	59	46	38	33	58	46	38	33	45	38	33	43	37	33	42	37	32					31				
10	56	43	35	30	54	42	35	30	41	34	30	40	34	30	39	34	30					28				

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	8037	8037	8037
5°	8084	8051	8091
10°	8091	8119	8264
15°	8102	8254	8514
20°	8096	8405	8601
25°	8047	8413	8536
30°	7954	8301	8328
35°	7812	8032	7936
40°	7504	7550	7431
45°	6992	6919	6778
50°	6402	6298	5976
55°	5750	5537	5053
60°	5100	4581	4362
65°	4493	3806	3958
70°	4019	3303	3770
75°	3764	3212	3813
80°	3665	3247	3629
85°	2925	2569	2665



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	569.0	3.8
10°-20°	1676.1	11.3
20°-30°	2578.4	17.3
30°-40°	3009.2	20.2
40°-50°	2796.3	18.8
50°-60°	2072.7	13.9
60°-70°	1267.1	8.5
70°-80°	721.7	4.8
80°-90°	206.4	1.4
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°	4823.5	32.4
0°-40°	7832.7	52.6
0°-60°	12701.7	85.3
0°-90°	14897.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	14897.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	5973	5973	5973	5973	5973	
5°	5986	5958	5961	5956	5990	569
15°	5816	5813	5926	6043	6112	1642
25°	5420	5462	5667	5714	5750	2497
35°	4756	4793	4890	4850	4832	2963
45°	3675	3696	3636	3579	3562	2831
55°	2451	2390	2360	2192	2154	2200
65°	1411	1282	1196	1228	1243	1412
75°	724	679	618	704	733	775
85°	190	185	166	173	173	218
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	5973.3	5973.3	5973.3	5973.3	5973.3
2.5°	6005.6	5971.7	5965.6	5951.7	5982.5
5°	5985.6	5957.9	5960.9	5956.3	5990.2
7.5°	5962.5	5942.5	5954.8	5953.2	5997.9
10°	5922.4	5911.6	5942.5	5976.3	6048.8
12.5°	5877.7	5867.0	5934.8	6021.0	6099.6
15°	5816.1	5813.0	5925.5	6042.6	6111.9
17.5°	5739.1	5743.7	5914.7	6014.9	6076.5
20°	5654.3	5662.0	5870.0	5951.7	6007.2
22.5°	5545.0	5571.1	5783.8	5851.6	5894.7
25°	5420.2	5461.8	5666.7	5714.4	5749.9
27.5°	5286.1	5327.7	5521.8	5546.5	5566.5
30°	5119.7	5178.3	5343.1	5346.2	5360.1
32.5°	4950.2	5002.6	5129.0	5115.1	5118.2
35°	4756.1	4793.1	4890.2	4850.1	4831.6
37.5°	4532.7	4552.7	4614.4	4554.3	4551.2
40°	4272.3	4298.5	4298.5	4215.3	4230.7
42.5°	3995.0	4004.3	3965.7	3887.2	3899.5
45°	3674.6	3696.1	3636.0	3579.0	3562.1
47.5°	3357.2	3378.7	3315.6	3249.3	3220.0
50°	3058.3	3047.5	3009.0	2896.5	2854.9
52.5°	2748.6	2714.7	2699.3	2534.4	2486.7
55°	2451.2	2389.6	2360.3	2192.4	2153.9
57.5°	2175.5	2064.5	2009.1	1878.1	1862.7
60°	1895.1	1770.3	1702.5	1617.7	1620.8
62.5°	1640.8	1509.9	1428.2	1403.6	1414.4
65°	1411.3	1281.9	1195.6	1227.9	1243.3
67.5°	1203.3	1097.0	999.9	1075.4	1090.8
70°	1021.5	936.7	839.7	950.6	958.3
72.5°	870.5	801.2	719.5	824.3	841.2
75°	724.1	679.4	617.8	704.1	733.4
77.5°	596.2	560.8	525.4	577.8	610.1
80°	473.0	437.6	419.1	446.8	468.4
82.5°	334.3	311.2	292.7	312.8	323.5
85°	189.5	184.9	166.4	172.6	172.6
87.5°	43.1	49.3	55.5	50.8	43.1
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)