

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-N-UNV-L735-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 (P23767)
Test Lab: INNOVATION CENTER P2
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: HBLED-LD5-15SE-N-UNV-L735-ED1-U
Description: METALUX HIGH BAY LINEAR LED
Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

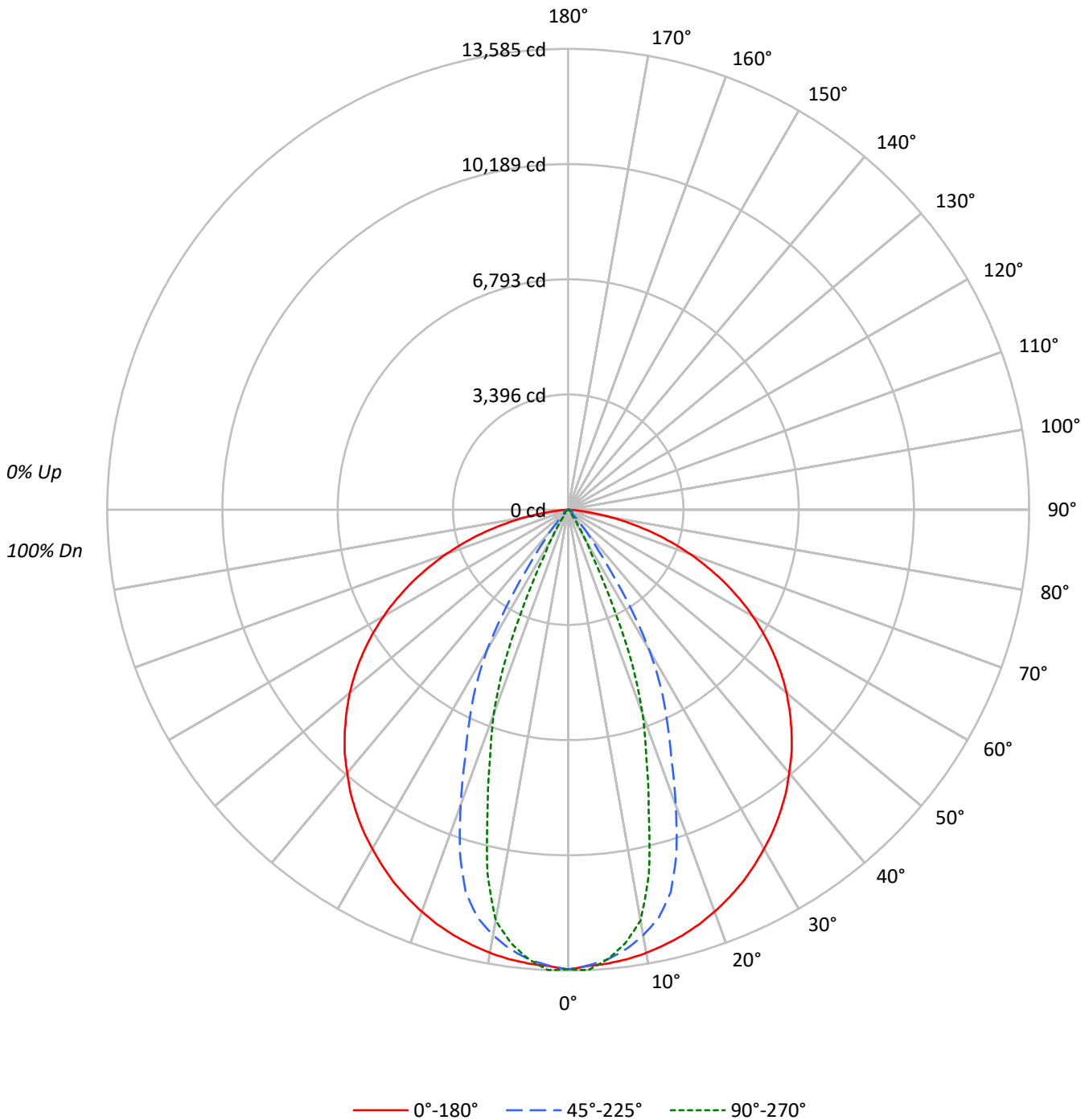
Lumens per Lamp: N/A
Luminaire Lumens: 14404.0 lumens
Efficiency: N/A
Efficacy: 151.3 lumens/watt
Spacing Criteria (0/90/45): 1.27 / 0.62 / 0.77
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

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	112	108	105	102	109	106	103	101	102	100	98	98	96	95	95	93	92	90					90			
2	105	98	93	89	102	97	92	88	93	89	86	90	87	84	87	85	82	81					81			
3	98	90	84	79	96	88	83	78	86	81	77	83	79	76	81	77	74	73					73			
4	92	82	76	70	90	81	75	70	79	73	69	77	72	68	75	71	67	66					66			
5	86	76	69	64	84	75	68	63	73	67	63	71	66	62	70	65	62	60					60			
6	81	70	63	58	79	70	63	58	68	62	58	66	61	57	65	60	57	55					55			
7	76	66	58	54	75	65	58	53	63	57	53	62	57	53	61	56	52	51					51			
8	72	61	54	49	71	61	54	49	59	53	49	58	53	49	57	52	49	47					47			
9	68	57	51	46	67	57	50	46	56	50	46	55	49	46	54	49	45	44					44			
10	65	54	47	43	64	53	47	43	53	47	43	52	46	43	51	46	42	41					41			

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	18234	18234	18234
5°	18137	17976	17968
10°	18125	17400	16790
15°	18099	16256	12778
20°	18057	13252	9198
25°	18011	10247	4531
30°	17932	7447	1469
35°	17889	3304	378
40°	17796	1342	255
45°	17716	377	271
50°	17578	267	301
55°	17325	318	129
60°	16897	354	78
65°	16202	226	92
70°	15052	200	114
75°	13168	151	158
80°	9846	185	225
85°	4877	239	298



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1257.6	8.7
10°-20°	3144.7	21.8
20°-30°	3406.2	23.6
30°-40°	2522.5	17.5
40°-50°	1816.8	12.6
50°-60°	1125.0	7.8
60°-70°	691.8	4.8
70°-80°	364.7	2.5
80°-90°	74.6	0.5
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°	7808.6	54.2
0°-40°	10331.0	71.7
0°-60°	13272.8	92.1
0°-90°	14404.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	14404.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	13552	13552	13552	13552	13552	
5°	13428	13478	13310	13319	13304	###
15°	12994	12692	11670	9924	9173	3668
25°	12132	11113	6902	4342	3052	5590
35°	10891	7678	2011	473	230	6814
45°	9311	4326	198	143	142	7180
55°	7386	891	135	122	55	6593
65°	5089	94	71	45	29	5021
75°	2533	22	29	38	30	2675
85°	316	8	16	23	19	477
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	13551.9	13551.9	13551.9	13551.9	13551.9
2.5°	13464.9	13550.6	13449.4	13524.9	13584.8
5°	13428.2	13477.8	13309.5	13319.2	13303.7
7.5°	13363.7	13352.1	13069.1	12945.3	12891.1
10°	13266.3	13189.6	12735.8	12477.2	12289.0
12.5°	13140.6	12969.1	12319.9	11498.0	10987.4
15°	12993.6	12691.9	11670.1	9924.3	9173.2
17.5°	12818.3	12390.9	10607.7	8317.7	7647.3
20°	12611.3	12055.0	9255.1	7076.7	6423.6
22.5°	12380.5	11646.2	7941.2	5881.5	4949.9
25°	12132.3	11113.1	6902.0	4342.0	3051.9
27.5°	11845.5	10427.8	5927.2	2557.5	1557.6
30°	11541.8	9602.6	4793.2	1375.8	945.8
32.5°	11235.6	8667.2	3391.7	859.4	536.4
35°	10891.3	7678.2	2011.4	473.2	230.2
37.5°	10532.2	6771.8	1188.8	215.3	147.6
40°	10131.9	5943.4	764.0	143.1	145.1
42.5°	9745.1	5171.0	430.0	141.2	143.8
45°	9310.6	4325.8	197.9	143.1	142.5
47.5°	8861.2	3449.7	128.3	144.4	144.4
50°	8397.7	2466.6	127.6	147.6	143.8
52.5°	7908.4	1538.9	132.8	147.0	118.0
55°	7385.5	891.0	135.4	122.5	54.8
57.5°	6844.0	525.4	136.7	70.3	30.9
60°	6279.2	290.8	131.5	52.2	29.0
62.5°	5697.1	138.6	103.8	49.0	28.4
65°	5089.1	94.1	70.9	45.1	29.0
67.5°	4458.0	72.8	56.1	42.5	29.7
70°	3826.2	54.2	50.9	42.5	29.0
72.5°	3184.1	36.7	42.5	43.2	29.0
75°	2533.0	21.9	29.0	38.0	30.3
77.5°	1887.6	13.5	22.6	39.3	36.7
80°	1270.7	11.6	23.9	36.7	29.0
82.5°	745.9	10.3	23.2	28.4	23.2
85°	315.9	8.4	15.5	23.2	19.3
87.5°	59.3	7.1	12.2	18.7	16.8
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)