

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-LD5-15HE-N-UNV-L835-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-LD5-15HE-N-UNV-L835-ED1-U
Description: METALUX HIGH BAY LINEAR LED
Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

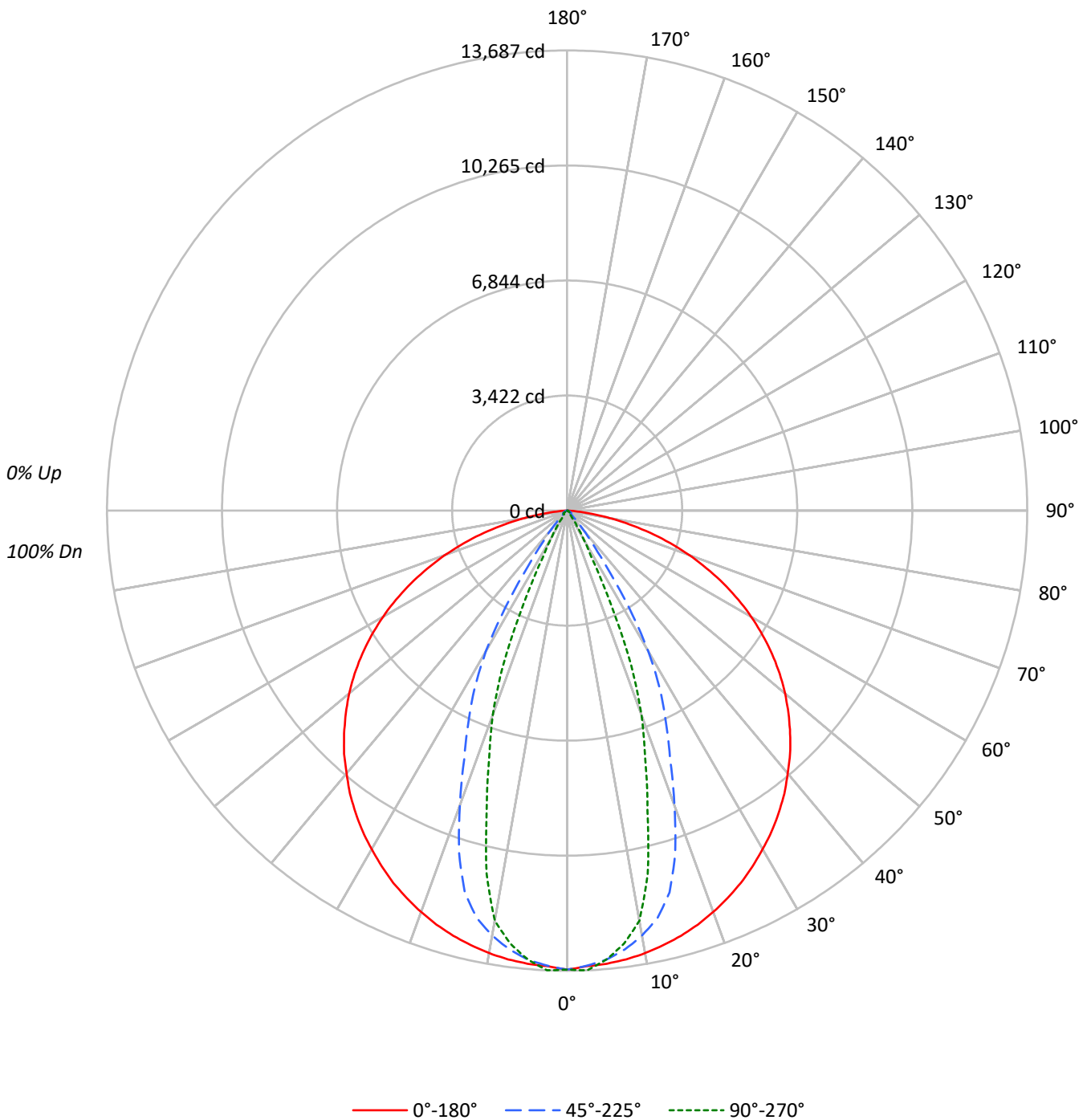
Lumens per Lamp: N/A
Luminaire Lumens: 14512.0 lumens
Efficiency: N/A
Efficacy: 158.1 lumens/watt
Spacing Criteria (0/90/45): 1.27 / 0.62 / 0.77
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

Input Watts (W): 91.8
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°	18371	18371	18371
5°	18272	18111	18103
10°	18261	17531	16916
15°	18235	16378	12874
20°	18193	13351	9267
25°	18147	10323	4565
30°	18066	7503	1480
35°	18024	3329	381
40°	17929	1352	257
45°	17849	379	273
50°	17710	269	303
55°	17455	320	129
60°	17024	357	79
65°	16324	227	93
70°	15165	202	115
75°	13267	152	159
80°	9919	186	226
85°	4914	241	301



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1267.1	8.7
10°-20°	3168.3	21.8
20°-30°	3431.8	23.6
30°-40°	2541.4	17.5
40°-50°	1830.4	12.6
50°-60°	1133.4	7.8
60°-70°	697.0	4.8
70°-80°	367.4	2.5
80°-90°	75.2	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°	7867.1	54.2
0°-40°	10408.5	71.7
0°-60°	13372.3	92.1
0°-90°	14512.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	14512.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	13654	13654	13654	13654	13654	
5°	13529	13579	13409	13419	13404	###
15°	13091	12787	11758	9999	9242	3695
25°	12223	11196	6954	4374	3075	5632
35°	10973	7736	2026	477	232	6865
45°	9380	4358	199	144	144	7234
55°	7441	898	136	123	55	6643
65°	5127	95	71	46	29	5059
75°	2552	22	29	38	30	2695
85°	318	8	16	23	20	481
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	13653.5	13653.5	13653.5	13653.5	13653.5
2.5°	13565.9	13652.2	13550.3	13626.3	13686.7
5°	13528.8	13578.9	13409.3	13419.1	13403.5
7.5°	13463.9	13452.2	13167.1	13042.4	12987.8
10°	13365.8	13288.5	12831.3	12570.8	12381.1
12.5°	13239.2	13066.4	12412.3	11584.2	11069.8
15°	13091.1	12787.1	11757.6	9998.7	9242.0
17.5°	12914.4	12483.8	10687.2	8380.1	7704.6
20°	12705.9	12145.4	9324.5	7129.8	6471.8
22.5°	12473.4	11733.6	8000.8	5925.6	4987.0
25°	12223.3	11196.4	6953.8	4374.5	3074.8
27.5°	11934.3	10506.0	5971.7	2576.6	1569.2
30°	11628.3	9674.6	4829.2	1386.1	952.8
32.5°	11319.8	8732.1	3417.1	865.8	540.4
35°	10973.0	7735.8	2026.5	476.7	231.9
37.5°	10611.2	6822.6	1197.7	216.9	148.7
40°	10207.8	5987.9	769.7	144.2	146.1
42.5°	9818.1	5209.8	433.2	142.2	144.8
45°	9380.4	4358.3	199.4	144.2	143.5
47.5°	8927.6	3475.6	129.3	145.5	145.5
50°	8460.6	2485.1	128.6	148.7	144.8
52.5°	7967.7	1550.4	133.8	148.1	118.9
55°	7440.9	897.6	136.4	123.4	55.2
57.5°	6895.3	529.4	137.7	70.8	31.2
60°	6326.3	292.9	132.5	52.6	29.2
62.5°	5739.8	139.6	104.6	49.4	28.6
65°	5127.3	94.8	71.4	45.5	29.2
67.5°	4491.4	73.4	56.5	42.9	29.9
70°	3854.9	54.6	51.3	42.9	29.2
72.5°	3208.0	37.0	42.9	43.5	29.2
75°	2552.0	22.1	29.2	38.3	30.5
77.5°	1901.8	13.6	22.7	39.6	37.0
80°	1280.2	11.7	24.0	37.0	29.2
82.5°	751.5	10.4	23.4	28.6	23.4
85°	318.3	8.4	15.6	23.4	19.5
87.5°	59.8	7.1	12.3	18.8	16.9
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)