

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-LD5-12SE-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-LD5-12SE-N-UNV-L835-ED1-U
Description: METALUX HIGH BAY LINEAR LED
Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

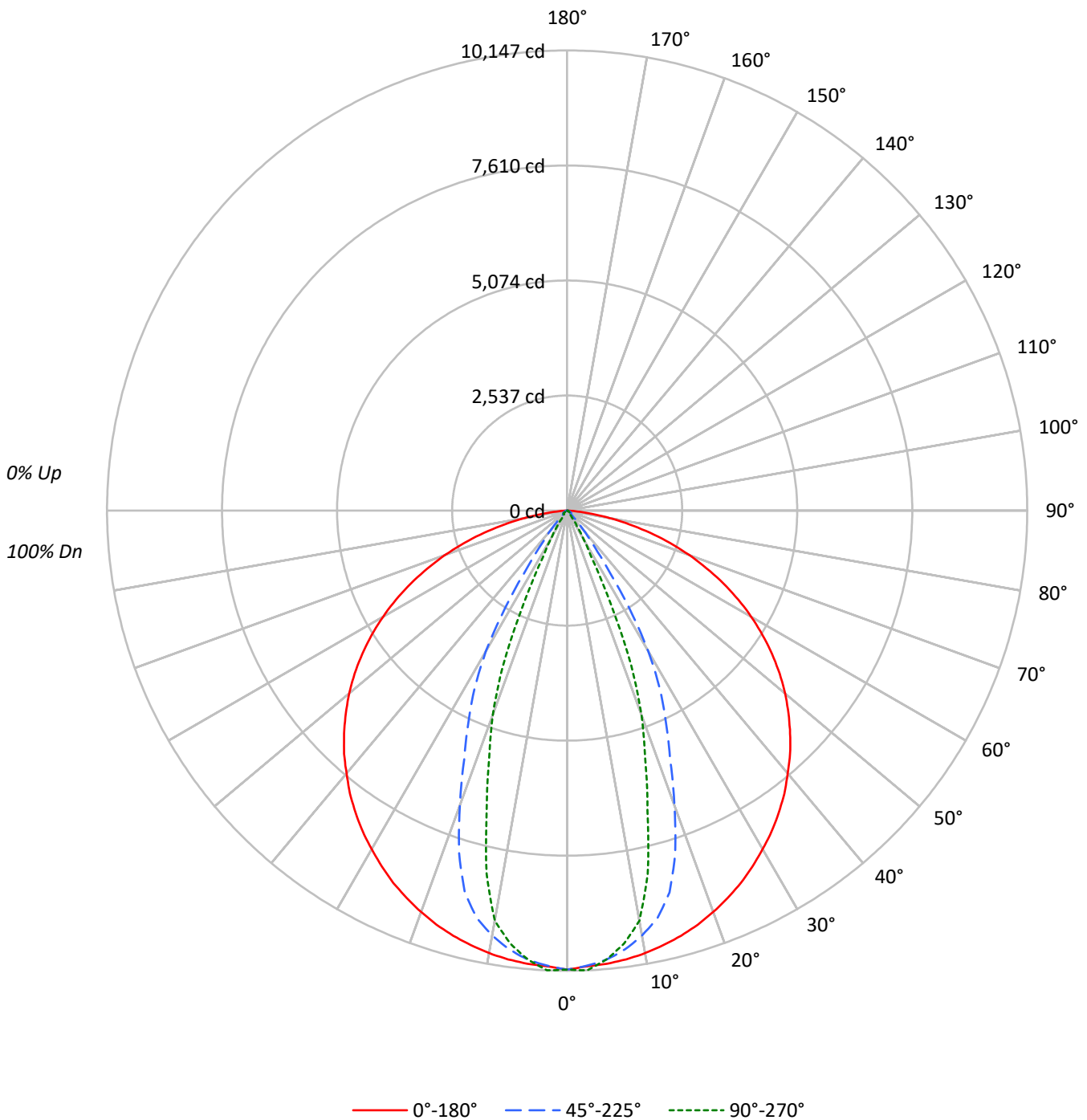
Lumens per Lamp: N/A
Luminaire Lumens: 10759.0 lumens
Efficiency: N/A
Efficacy: 140.5 lumens/watt
Spacing Criteria (0/90/45): 1.27 / 0.62 / 0.77
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

Input Watts (W): 76.6
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°	13620	13620	13620
5°	13547	13427	13421
10°	13538	12997	12541
15°	13519	12142	9544
20°	13488	9898	6870
25°	13454	7654	3384
30°	13394	5562	1097
35°	13362	2468	282
40°	13293	1002	190
45°	13233	281	202
50°	13130	199	225
55°	12941	237	96
60°	12621	264	58
65°	12102	169	69
70°	11243	149	85
75°	9836	113	117
80°	7354	138	168
85°	3643	179	222



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	939.4	8.7
10°-20°	2348.9	21.8
20°-30°	2544.3	23.6
30°-40°	1884.1	17.5
40°-50°	1357.1	12.6
50°-60°	840.3	7.8
60°-70°	516.8	4.8
70°-80°	272.4	2.5
80°-90°	55.7	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°	5832.6	54.2
0°-40°	7716.7	71.7
0°-60°	9914.1	92.1
0°-90°	10759.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	10759.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	10123	10123	10123	10123	10123	
5°	10030	10067	9942	9949	9937	954
15°	9706	9480	8717	7413	6852	2740
25°	9062	8301	5155	3243	2280	4176
35°	8135	5735	1502	354	172	5090
45°	6954	3231	148	107	106	5363
55°	5517	666	101	92	41	4925
65°	3801	70	53	34	22	3751
75°	1892	16	22	28	23	1998
85°	236	6	12	17	14	357
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	10122.6	10122.6	10122.6	10122.6	10122.6
2.5°	10057.5	10121.6	10046.0	10102.3	10147.1
5°	10030.1	10067.2	9941.5	9948.7	9937.2
7.5°	9981.9	9973.3	9761.9	9669.4	9629.0
10°	9909.2	9851.9	9512.9	9319.8	9179.2
12.5°	9815.3	9687.2	9202.3	8588.4	8207.0
15°	9705.5	9480.2	8716.9	7412.9	6851.9
17.5°	9574.6	9255.3	7923.3	6212.9	5712.1
20°	9420.0	9004.4	6913.1	5285.9	4798.1
22.5°	9247.6	8699.1	5931.7	4393.1	3697.3
25°	9062.2	8300.9	5155.4	3243.2	2279.6
27.5°	8847.9	7789.0	4427.3	1910.3	1163.4
30°	8621.1	7172.6	3580.3	1027.6	706.4
32.5°	8392.4	6473.9	2533.4	641.9	400.6
35°	8135.2	5735.2	1502.4	353.5	171.9
37.5°	7867.0	5058.1	888.0	160.8	110.3
40°	7568.0	4439.4	570.6	106.9	108.3
42.5°	7279.0	3862.5	321.2	105.5	107.4
45°	6954.5	3231.2	147.8	106.9	106.4
47.5°	6618.8	2576.7	95.8	107.9	107.9
50°	6272.6	1842.4	95.3	110.3	107.4
52.5°	5907.1	1149.4	99.2	109.8	88.1
55°	5516.6	665.5	101.1	91.5	40.9
57.5°	5112.1	392.5	102.1	52.5	23.1
60°	4690.2	217.2	98.2	39.0	21.7
62.5°	4255.4	103.5	77.5	36.6	21.2
65°	3801.3	70.3	53.0	33.7	21.7
67.5°	3329.9	54.4	41.9	31.8	22.2
70°	2858.0	40.4	38.0	31.8	21.7
72.5°	2378.4	27.4	31.8	32.3	21.7
75°	1892.0	16.4	21.7	28.4	22.6
77.5°	1410.0	10.1	16.9	29.4	27.4
80°	949.1	8.7	17.8	27.4	21.7
82.5°	557.1	7.7	17.3	21.2	17.3
85°	236.0	6.3	11.6	17.3	14.4
87.5°	44.3	5.3	9.1	14.0	12.5
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)