

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-CL-UNV-L850-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 (P23768)
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-CL-UNV-L850-ED1-U
Description: METALUX HIGH BAY LINEAR LED
Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

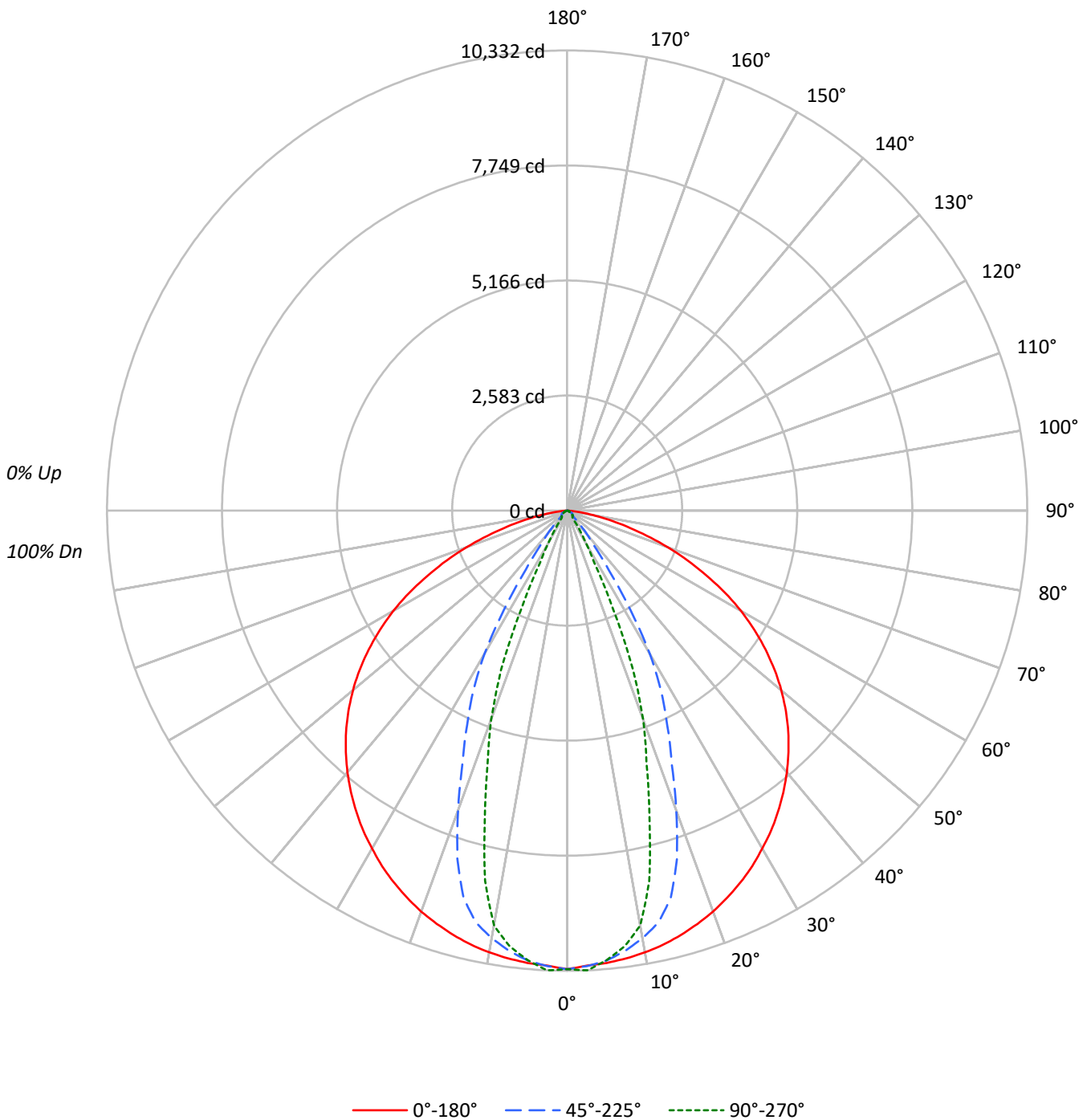
Lumens per Lamp: N/A
Luminaire Lumens: 11013.0 lumens
Efficiency: N/A
Efficacy: 143.8 lumens/watt
Spacing Criteria (0/90/45): 1.27 / 0.63 / 0.78
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

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	109	105	103	109	106	104	101	102	100	98	98	97	95	95	94	92	90					90			
2	105	99	94	90	102	97	92	89	94	90	87	91	87	85	88	85	83	81					81			
3	98	90	84	79	96	89	83	79	86	81	77	83	79	76	81	78	75	73					73			
4	92	83	76	71	90	82	75	71	79	74	70	77	73	69	75	71	68	66					66			
5	86	76	69	64	85	75	69	64	73	68	63	72	67	63	70	66	62	60					60			
6	81	71	64	59	80	70	63	58	68	62	58	67	62	58	65	61	57	55					55			
7	77	66	59	54	75	65	58	54	64	58	53	62	57	53	61	56	53	51					51			
8	72	61	55	50	71	61	54	50	60	54	49	59	53	49	58	53	49	47					47			
9	69	58	51	46	67	57	51	46	56	50	46	55	50	46	54	49	46	44					44			
10	65	54	48	43	64	54	47	43	53	47	43	52	47	43	51	46	43	41					41			

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	13855	13855	13855
5°	13770	13698	13688
10°	13761	13319	12926
15°	13745	12525	9939
20°	13718	10250	7129
25°	13675	7897	3623
30°	13610	5764	1318
35°	13562	2647	459
40°	13478	1201	317
45°	13358	448	321
50°	13146	325	337
55°	12756	342	257
60°	12122	366	227
65°	10993	279	185
70°	9426	201	170
75°	7205	178	162
80°	4507	167	176
85°	1423	195	236



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	958.7	8.7
10°-20°	2415.0	21.9
20°-30°	2630.1	23.9
30°-40°	1967.4	17.9
40°-50°	1414.6	12.8
50°-60°	868.8	7.9
60°-70°	499.9	4.5
70°-80°	223.1	2.0
80°-90°	35.4	0.3
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°	6003.7	54.5
0°-40°	7971.2	72.4
0°-60°	10254.6	93.1
0°-90°	11013.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	11013.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	10297	10297	10297	10297	10297	
5°	10195	10243	10142	10152	10135	969
15°	9868	9678	8992	7722	7135	2785
25°	9211	8551	5320	3413	2440	4246
35°	8257	5922	1611	474	279	5165
45°	7020	3327	236	174	169	5408
55°	5438	691	146	141	110	4848
65°	3453	76	88	73	58	3418
75°	1386	46	34	35	31	1504
85°	92	9	13	16	15	184
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	10297.4	10297.4	10297.4	10297.4	10297.4
2.5°	10225.8	10292.7	10236.3	10286.9	10331.7
5°	10195.2	10243.2	10142.0	10151.5	10134.6
7.5°	10142.5	10154.1	9971.3	9900.7	9866.4
10°	10071.9	10040.8	9748.9	9580.8	9461.2
12.5°	9982.9	9880.1	9472.3	8872.1	8514.3
15°	9867.5	9678.3	8991.7	7722.3	7135.3
17.5°	9729.9	9467.5	8196.0	6436.0	5928.1
20°	9580.8	9234.6	7158.5	5472.3	4979.0
22.5°	9404.8	8936.9	6135.2	4551.2	3874.1
25°	9211.4	8550.6	5319.5	3413.0	2440.3
27.5°	9002.8	8041.1	4564.3	2093.0	1319.5
30°	8760.4	7420.9	3709.7	1174.5	848.4
32.5°	8523.8	6697.9	2650.0	782.5	542.2
35°	8256.6	5921.7	1611.4	473.7	279.3
37.5°	7973.6	5216.2	1008.6	257.7	192.9
40°	7673.8	4547.0	684.0	182.8	180.2
42.5°	7353.4	3941.5	428.4	173.9	179.7
45°	7020.4	3327.1	235.5	174.4	168.6
47.5°	6658.9	2660.0	164.4	164.9	164.4
50°	6280.1	1908.0	155.4	162.8	161.2
52.5°	5871.7	1184.6	156.0	159.1	142.8
55°	5438.0	691.3	146.0	141.2	109.6
57.5°	4982.2	431.0	142.8	116.5	98.5
60°	4504.8	227.6	136.0	104.9	84.3
62.5°	3996.3	112.2	109.1	89.6	69.0
65°	3453.0	75.9	87.5	72.7	58.0
67.5°	2928.2	68.5	65.9	59.5	50.6
70°	2396.0	62.7	51.1	52.2	43.2
72.5°	1873.8	56.9	41.1	44.8	36.4
75°	1385.9	45.8	34.3	35.3	31.1
77.5°	964.3	35.8	26.9	30.0	29.0
80°	581.7	22.7	21.6	24.8	22.7
82.5°	281.9	14.8	16.9	19.5	17.9
85°	92.2	9.0	12.6	16.3	15.3
87.5°	11.6	5.3	10.5	14.2	13.2
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)