

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-LD5-12HE-N-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 (P23767)
Test Lab: INNOVATION CENTER P2
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: HBLED-LD5-12HE-N-UNV-L750-ED1-U
Description: METALUX HIGH BAY LINEAR LED
Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

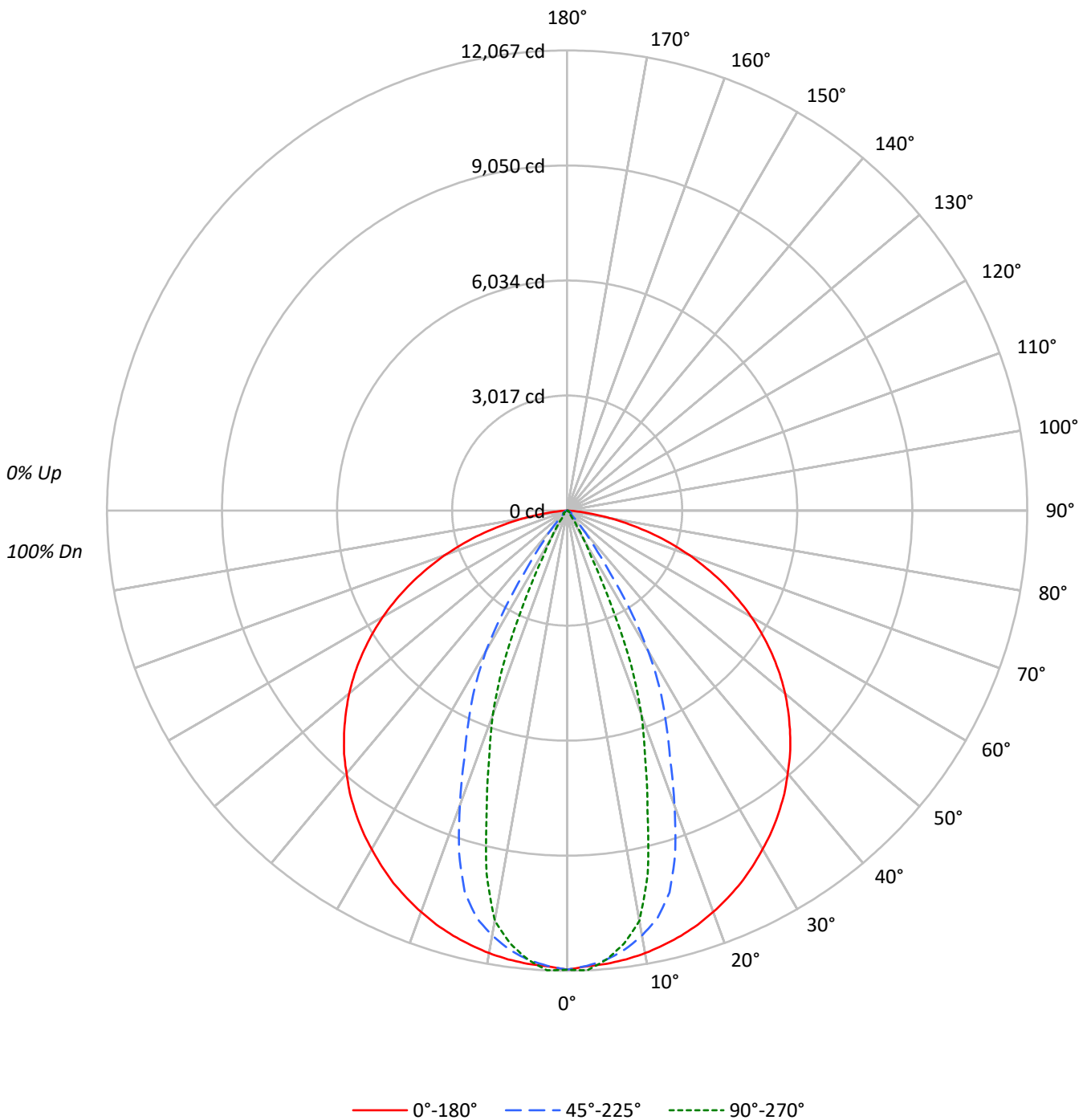
Lumens per Lamp: N/A
Luminaire Lumens: 12795.0 lumens
Efficiency: N/A
Efficacy: 176.2 lumens/watt
Spacing Criteria (0/90/45): 1.27 / 0.62 / 0.77
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

Input Watts (W): 72.6
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
RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10
RCR																	
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102
1	112	108	105	102	109	106	103	101	102	100	98	98	96	95	95	93	92
2	105	98	93	89	102	97	92	88	93	89	86	90	87	84	87	85	82
3	98	90	84	79	96	88	83	78	86	81	77	83	79	76	81	77	74
4	92	82	76	70	90	81	75	70	79	73	69	77	72	68	75	71	67
5	86	76	69	64	84	75	68	63	73	67	63	71	66	62	70	65	62
6	81	70	63	58	79	70	63	58	68	62	58	66	61	57	65	60	57
7	76	66	58	54	75	65	58	53	63	57	53	62	57	53	61	56	52
8	72	61	54	49	71	61	54	49	59	53	49	58	53	49	57	52	49
9	68	57	51	46	67	57	50	46	56	50	46	55	49	46	54	49	45
10	65	54	47	43	64	53	47	43	53	47	43	52	46	43	51	46	42

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	16197	16197	16197
5°	16111	15968	15961
10°	16100	15456	14914
15°	16078	14440	11350
20°	16040	11772	8170
25°	16000	9102	4025
30°	15929	6615	1305
35°	15891	2935	336
40°	15808	1192	226
45°	15737	335	241
50°	15615	237	267
55°	15390	282	114
60°	15010	314	69
65°	14393	201	82
70°	13371	178	101
75°	11697	134	140
80°	8746	164	200
85°	4332	211	266



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1117.2	8.7
10°-20°	2793.4	21.8
20°-30°	3025.7	23.6
30°-40°	2240.7	17.5
40°-50°	1613.9	12.6
50°-60°	999.3	7.8
60°-70°	614.6	4.8
70°-80°	324.0	2.5
80°-90°	66.3	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°	6936.3	54.2
0°-40°	9177.0	71.7
0°-60°	11790.2	92.1
0°-90°	12795.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	12795.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	12038	12038	12038	12038	12038	
5°	11928	11972	11823	11831	11818	###
15°	11542	11274	10366	8816	8148	3258
25°	10777	9872	6131	3857	2711	4966
35°	9675	6820	1787	420	204	6053
45°	8270	3843	176	127	127	6378
55°	6560	791	120	109	49	5857
65°	4521	84	63	40	26	4460
75°	2250	20	26	34	27	2376
85°	281	7	14	21	17	424
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	12038.1	12038.1	12038.1	12038.1	12038.1
2.5°	11960.8	12037.0	11947.1	12014.1	12067.3
5°	11928.2	11972.3	11822.8	11831.4	11817.6
7.5°	11870.9	11860.6	11609.2	11499.2	11451.1
10°	11784.4	11716.3	11313.1	11083.5	10916.3
12.5°	11672.8	11520.4	10943.7	10213.6	9760.0
15°	11542.2	11274.2	10366.5	8815.7	8148.5
17.5°	11386.4	11006.7	9422.7	7388.6	6793.0
20°	11202.6	10708.4	8221.3	6286.2	5706.1
22.5°	10997.6	10345.3	7054.2	5224.5	4397.0
25°	10777.1	9871.7	6131.0	3856.9	2711.0
27.5°	10522.3	9263.0	5265.1	2271.8	1383.6
30°	10252.5	8529.9	4257.8	1222.1	840.1
32.5°	9980.5	7699.0	3012.8	763.4	476.5
35°	9674.7	6820.5	1786.7	420.3	204.4
37.5°	9355.7	6015.3	1056.0	191.3	131.1
40°	9000.1	5279.5	678.6	127.1	128.9
42.5°	8656.5	4593.4	382.0	125.4	127.7
45°	8270.5	3842.6	175.8	127.1	126.6
47.5°	7871.4	3064.4	114.0	128.3	128.3
50°	7459.6	2191.0	113.4	131.1	127.7
52.5°	7025.0	1367.0	118.0	130.6	104.8
55°	6560.5	791.4	120.3	108.8	48.7
57.5°	6079.5	466.7	121.4	62.4	27.5
60°	5577.8	258.3	116.8	46.4	25.8
62.5°	5060.7	123.1	92.2	43.5	25.2
65°	4520.7	83.6	63.0	40.1	25.8
67.5°	3960.0	64.7	49.8	37.8	26.3
70°	3398.8	48.1	45.2	37.8	25.8
72.5°	2828.4	32.6	37.8	38.4	25.8
75°	2250.0	19.5	25.8	33.8	26.9
77.5°	1676.8	12.0	20.0	34.9	32.6
80°	1128.7	10.3	21.2	32.6	25.8
82.5°	662.6	9.2	20.6	25.2	20.6
85°	280.6	7.4	13.7	20.6	17.2
87.5°	52.7	6.3	10.9	16.6	14.9
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)