

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-CLWG-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 (P33344)
Test Lab: INNOVATION CENTER-P3
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: HBLED-LD5-12SE-N-CLWG-UNV-L750-ED1-U
Description: METALUX HIGH BAY LINEAR LED
NARROW DISTRIBUTION WITH CLEAR LENS, WIREGUARD & DOORFRAME
Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

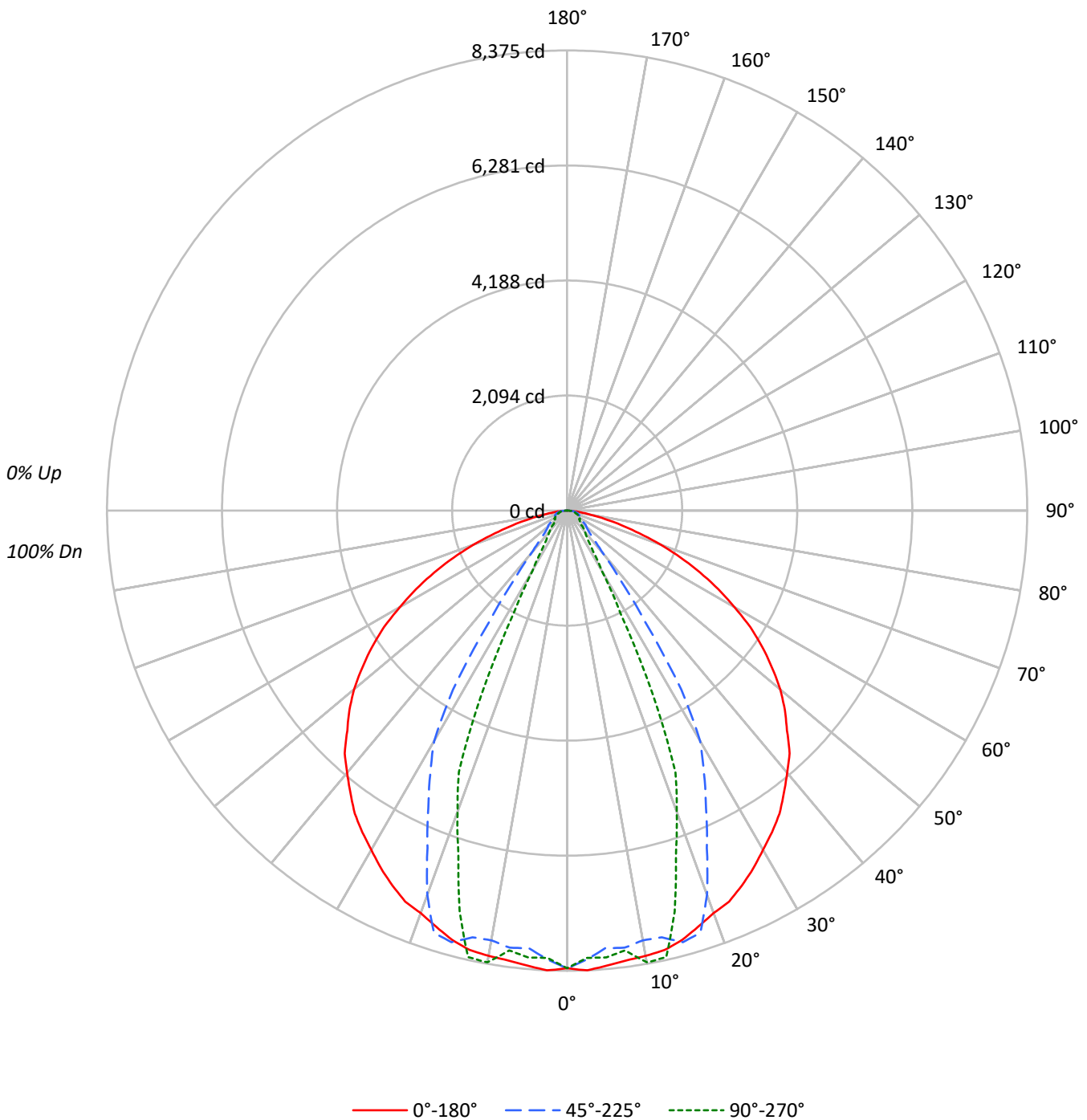
Lumens per Lamp: N/A
Luminaire Lumens: 11198.0 lumens
Efficiency: N/A
Efficacy: 146.2 lumens/watt
Spacing Criteria (0/90/45): 1.27 / 0.81 / 0.91
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

Input Watts (W): 76.6
Input Voltage (V): NR
Input Current (A_{in}): 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	111	108	104	101	109	105	103	100	101	99	97	98	96	94	94	92	91	89					89			
2	104	97	92	88	101	96	91	87	92	88	85	89	86	83	86	84	81	79					79			
3	97	89	82	77	95	87	81	76	84	79	75	82	77	74	79	76	73	71					71			
4	90	81	74	68	88	80	73	68	77	72	67	75	70	66	73	69	65	64					64			
5	85	74	67	62	83	73	66	61	71	65	61	69	64	60	68	63	59	58					58			
6	79	68	61	56	78	68	61	56	66	60	55	64	59	55	63	58	54	53					53			
7	75	63	56	51	73	63	56	51	61	55	50	60	54	50	59	54	50	48					48			
8	70	59	52	47	69	58	51	47	57	51	46	56	50	46	55	50	46	44					44			
9	66	55	48	43	65	54	48	43	53	47	43	52	47	43	52	46	43	41					41			
10	63	52	45	40	62	51	45	40	50	44	40	49	44	40	48	43	40	38					38			

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	11207	11207	11207
5°	11226	10798	11026
10°	11242	10850	11407
15°	11267	11326	10527
20°	11161	10653	8356
25°	11177	8881	5458
30°	11077	7523	1961
35°	11065	4076	1103
40°	10940	1777	864
45°	10770	1098	677
50°	10603	957	639
55°	10186	830	626
60°	9450	743	672
65°	8495	840	734
70°	7124	903	758
75°	5326	1030	820
80°	3345	1196	935
85°	2228	1499	1369



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	772.0	6.9
10°-20°	2180.1	19.5
20°-30°	2669.6	23.8
30°-40°	2096.4	18.7
40°-50°	1554.6	13.9
50°-60°	946.4	8.5
60°-70°	566.9	5.1
70°-80°	311.1	2.8
80°-90°	100.9	0.9
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°	5621.7	50.2
0°-40°	7718.1	68.9
0°-60°	10219.2	91.3
0°-90°	11198.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	11198.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	8330	8330	8330	8330	8330	
5°	8312	8085	7995	8083	8164	791
15°	8089	7867	8131	7802	7557	2277
25°	7529	7552	5982	4692	3676	3466
35°	6736	6128	2481	830	671	4203
45°	5660	4064	577	437	356	4377
55°	4342	1120	354	299	267	3864
65°	2668	330	264	248	231	2636
75°	1024	208	198	172	158	1109
85°	144	113	97	89	89	176
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	8329.6	8329.6	8329.6	8329.6	8329.6
2.5°	8375.1	8262.3	8175.8	8127.5	8147.2
5°	8311.7	8085.4	7995.1	8083.2	8163.5
7.5°	8256.7	7920.4	8022.6	8030.4	8072.5
10°	8228.6	7904.7	7941.7	8116.3	8349.3
12.5°	8191.5	7941.2	7954.1	8192.1	8323.5
15°	8088.8	7867.1	8130.9	7802.5	7557.2
17.5°	7938.9	7694.2	8056.8	6912.2	6578.7
20°	7794.6	7506.1	7439.9	6157.1	5835.5
22.5°	7701.5	7477.5	6646.1	5486.3	5154.0
25°	7528.6	7552.1	5982.0	4691.9	3676.4
27.5°	7338.3	7376.4	5394.8	3129.1	2106.3
30°	7129.4	7173.2	4842.4	1849.2	1262.0
32.5°	6940.2	6693.2	3867.3	1153.6	877.4
35°	6736.5	6127.9	2481.3	830.3	671.4
37.5°	6479.9	5534.0	1570.7	656.8	563.6
40°	6228.4	5000.7	1011.6	560.8	491.8
42.5°	5993.2	4561.1	736.0	490.1	444.0
45°	5660.3	4064.3	577.1	437.3	355.9
47.5°	5372.3	3481.6	504.7	369.9	307.1
50°	5065.3	2662.0	457.0	329.0	305.4
52.5°	4700.9	1741.4	422.2	314.9	285.2
55°	4342.2	1119.9	353.7	299.2	266.7
57.5°	3954.9	710.1	312.1	290.2	278.4
60°	3511.9	478.9	276.2	275.1	249.8
62.5°	3102.1	393.5	266.7	263.8	236.3
65°	2668.2	330.1	263.8	248.1	230.7
67.5°	2234.8	282.9	238.6	226.8	211.6
70°	1811.0	258.8	229.6	224.5	192.6
72.5°	1375.4	213.3	203.8	190.3	160.0
75°	1024.5	208.3	198.2	172.3	157.7
77.5°	693.3	192.0	180.2	154.4	142.6
80°	431.7	176.3	154.4	135.3	120.7
82.5°	256.5	147.1	126.9	111.7	102.2
85°	144.3	113.4	97.1	89.3	88.7
87.5°	30.9	41.0	32.6	30.9	21.9
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)