

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-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 (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-L750-ED1-U
Description: METALUX HIGH BAY LINEAR LED
Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

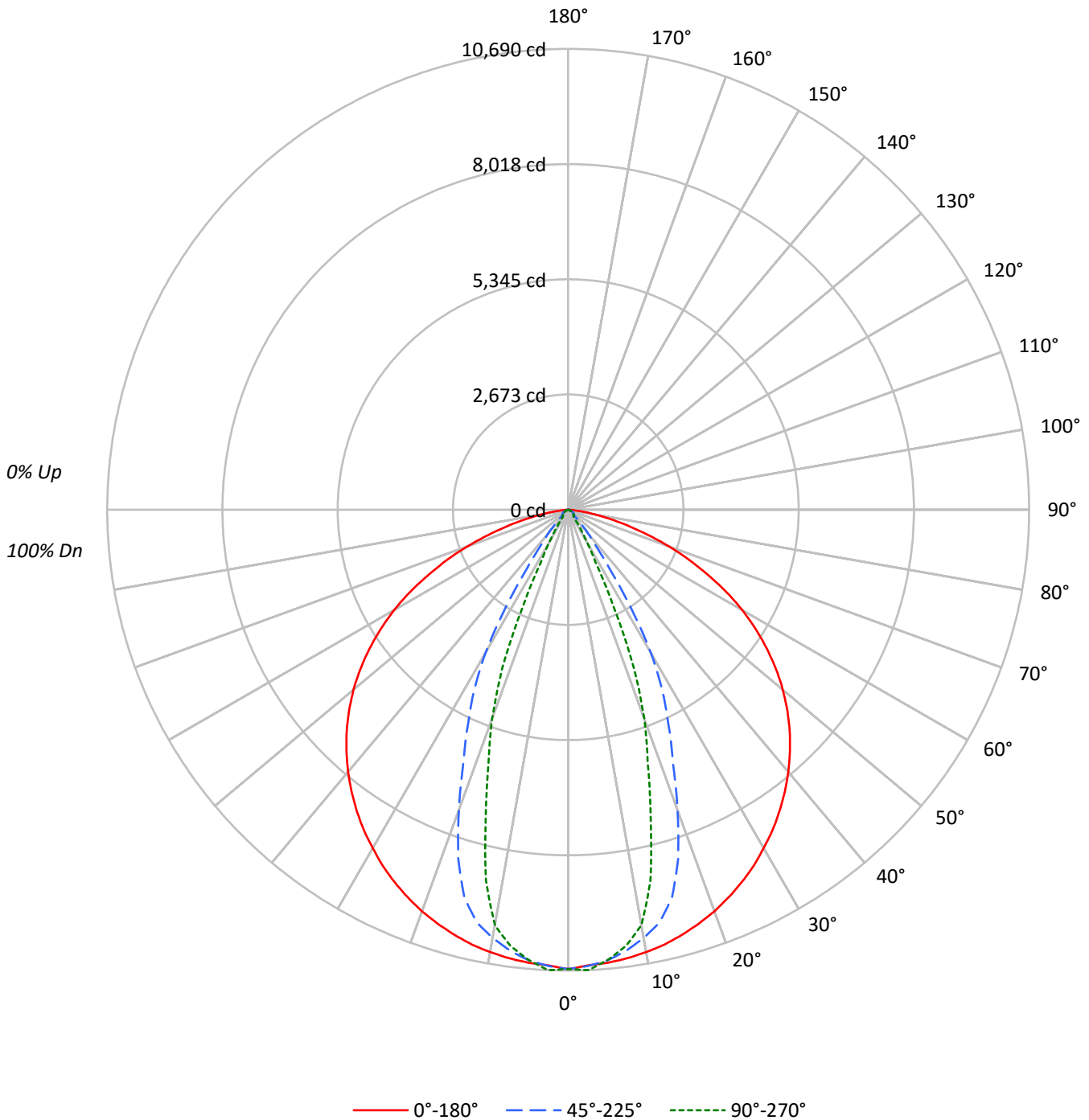
Lumens per Lamp: N/A
Luminaire Lumens: 11395.0 lumens
Efficiency: N/A
Efficacy: 148.8 lumens/watt
Spacing Criteria (0/90/45): 1.27 / 0.63 / 0.78
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

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°	14336	14336	14336
5°	14248	14173	14163
10°	14238	13781	13375
15°	14222	12959	10284
20°	14194	10605	7377
25°	14149	8171	3748
30°	14082	5963	1364
35°	14032	2739	475
40°	13946	1243	328
45°	13822	464	332
50°	13601	337	349
55°	13199	354	266
60°	12543	379	235
65°	11375	288	191
70°	9753	208	176
75°	7454	184	167
80°	4664	174	181
85°	1473	202	244



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	991.9	8.7
10°-20°	2498.8	21.9
20°-30°	2721.3	23.9
30°-40°	2035.6	17.9
40°-50°	1463.7	12.8
50°-60°	898.9	7.9
60°-70°	517.3	4.5
70°-80°	230.9	2.0
80°-90°	36.6	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°	6212.0	54.5
0°-40°	8247.6	72.4
0°-60°	10610.3	93.1
0°-90°	11395.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	11395.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	10655	10655	10655	10655	10655	
5°	10549	10598	10494	10504	10486	###
15°	10210	10014	9304	7990	7383	2882
25°	9531	8847	5504	3531	2525	4393
35°	8543	6127	1667	490	289	5344
45°	7264	3442	244	180	174	5596
55°	5627	715	151	146	113	5017
65°	3573	78	90	75	60	3537
75°	1434	47	35	36	32	1556
85°	95	9	13	17	16	190
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	10654.6	10654.6	10654.6	10654.6	10654.6
2.5°	10580.5	10649.7	10591.4	10643.7	10690.1
5°	10548.9	10598.5	10493.8	10503.6	10486.2
7.5°	10494.3	10506.3	10317.1	10244.1	10208.6
10°	10421.3	10389.1	10087.1	9913.1	9789.4
12.5°	10329.1	10222.8	9800.8	9179.8	8809.6
15°	10209.7	10014.0	9303.6	7990.2	7382.8
17.5°	10067.4	9795.9	8480.3	6659.3	6133.7
20°	9913.1	9554.9	7406.8	5662.1	5151.8
22.5°	9731.0	9246.9	6348.0	4709.0	4008.4
25°	9530.9	8847.2	5504.0	3531.4	2524.9
27.5°	9315.0	8320.0	4722.7	2165.6	1365.2
30°	9064.2	7678.3	3838.3	1215.3	877.8
32.5°	8819.4	6930.3	2741.9	809.6	561.0
35°	8543.0	6127.1	1667.3	490.1	289.0
37.5°	8250.2	5397.1	1043.5	266.6	199.5
40°	7940.0	4704.7	707.7	189.2	186.5
42.5°	7608.5	4078.2	443.3	179.9	185.9
45°	7263.9	3442.5	243.7	180.5	174.5
47.5°	6889.9	2752.3	170.1	170.7	170.1
50°	6497.9	1974.2	160.8	168.5	166.8
52.5°	6075.4	1225.6	161.4	164.7	147.8
55°	5626.6	715.3	151.0	146.1	113.4
57.5°	5155.0	446.0	147.8	120.5	102.0
60°	4661.1	235.5	140.7	108.5	87.2
62.5°	4134.9	116.1	112.9	92.7	71.4
65°	3572.8	78.5	90.5	75.2	60.0
67.5°	3029.8	70.9	68.2	61.6	52.3
70°	2479.1	64.9	52.9	54.0	44.7
72.5°	1938.8	58.9	42.5	46.3	37.6
75°	1433.9	47.4	35.4	36.5	32.2
77.5°	997.7	37.1	27.8	31.1	30.0
80°	601.9	23.4	22.4	25.6	23.4
82.5°	291.7	15.3	17.4	20.2	18.5
85°	95.4	9.3	13.1	16.9	15.8
87.5°	12.0	5.5	10.9	14.7	13.6
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)