

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-W-AWG-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 (P23764)
Test Lab: INNOVATION CENTER P2
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: HBLED-LD5-12HE-W-AWG-UNV-L750-ED1-U
Description: METALUX HIGH BAY LINEAR LED
Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

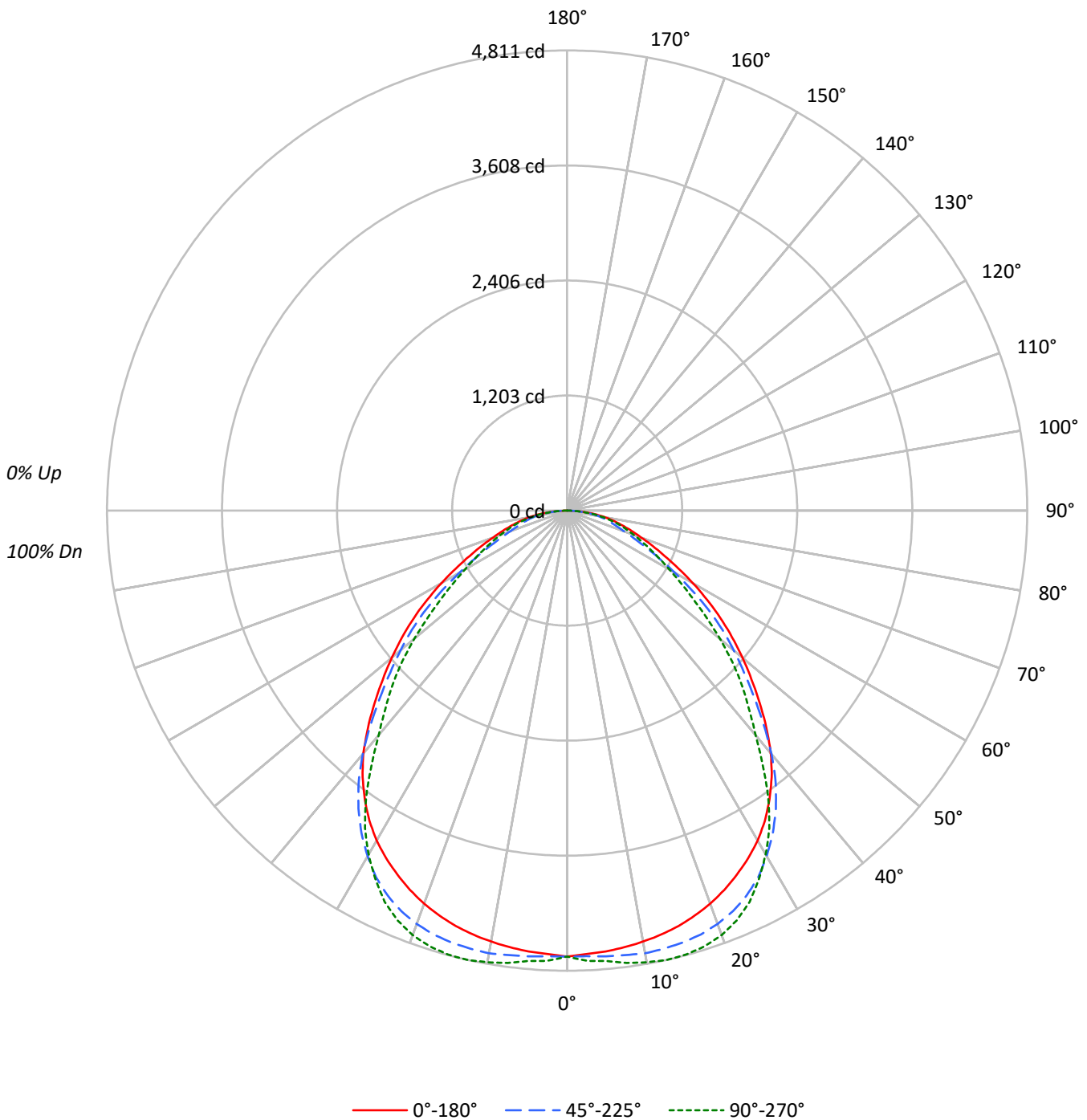
Lumens per Lamp: N/A
Luminaire Lumens: 11559.0 lumens
Efficiency: N/A
Efficacy: 159.2 lumens/watt
Spacing Criteria (0/90/45): 1.26 / 1.28 / 1.32
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

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	0
RW	70	50	30	10	70	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
1	110	105	101	98	107	103	100	96	99	96	93	95	93	90	91	90	88	86
2	101	93	87	82	98	91	85	81	88	83	79	85	81	77	82	78	75	73
3	92	83	75	69	90	81	74	69	78	72	67	76	70	66	73	69	65	63
4	85	74	66	60	83	73	65	59	70	64	58	68	62	58	66	61	57	55
5	79	67	58	52	77	66	58	52	63	56	51	62	55	51	60	54	50	48
6	73	60	52	46	71	59	51	46	58	51	45	56	50	45	54	49	44	42
7	68	55	47	41	66	54	46	41	53	46	40	51	45	40	50	44	40	38
8	63	50	42	37	62	50	42	37	48	41	36	47	41	36	46	40	36	34
9	59	46	38	33	58	46	38	33	45	38	33	44	37	33	43	37	33	31
10	56	43	35	30	54	42	35	30	41	35	30	40	34	30	40	34	30	28

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	6274	6274	6274
5°	6249	6319	6384
10°	6251	6421	6550
15°	6263	6510	6693
20°	6262	6584	6762
25°	6235	6593	6700
30°	6189	6483	6449
35°	6057	6249	6021
40°	5820	5837	5383
45°	5417	5263	4921
50°	5008	4759	4361
55°	4584	4217	3763
60°	4088	3500	3323
65°	3585	2881	3053
70°	3237	2482	2907
75°	3094	2432	2899
80°	3119	2575	2828
85°	2762	2359	2468



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	447.9	3.9
10°-20°	1320.0	11.4
20°-30°	2024.7	17.5
30°-40°	2328.7	20.1
40°-50°	2123.9	18.4
50°-60°	1591.9	13.8
60°-70°	979.2	8.5
70°-80°	561.1	4.9
80°-90°	181.7	1.6
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°	3792.6	32.8
0°-40°	6121.2	53.0
0°-60°	9837.0	85.1
0°-90°	11559.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	11559.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	4663	4663	4663	4663	4663	
5°	4627	4674	4679	4718	4726	440
15°	4496	4596	4674	4773	4805	1269
25°	4200	4320	4441	4509	4513	1935
35°	3688	3760	3804	3742	3666	2300
45°	2847	2909	2766	2623	2586	2197
55°	1954	1882	1798	1639	1604	1746
65°	1126	1007	905	933	959	1132
75°	595	533	468	536	558	636
85°	179	169	153	161	160	200
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	4662.8	4662.8	4662.8	4662.8	4662.8
2.5°	4640.8	4674.1	4663.4	4690.7	4711.0
5°	4627.1	4674.1	4678.9	4717.5	4726.4
7.5°	4603.9	4665.2	4686.6	4755.0	4770.4
10°	4575.4	4649.1	4699.7	4773.4	4794.2
12.5°	4540.9	4626.5	4690.7	4781.7	4811.4
15°	4496.3	4596.2	4673.5	4773.4	4804.9
17.5°	4439.9	4555.8	4646.2	4744.3	4777.0
20°	4373.3	4495.7	4598.6	4699.1	4722.3
22.5°	4293.0	4416.1	4533.2	4623.6	4636.1
25°	4199.7	4320.4	4441.1	4509.4	4513.0
27.5°	4098.0	4210.4	4323.3	4360.2	4344.1
30°	3983.3	4083.7	4172.9	4180.7	4150.9
32.5°	3847.1	3937.5	4001.1	3984.5	3934.5
35°	3687.8	3759.7	3804.3	3741.9	3665.8
37.5°	3513.0	3567.1	3582.0	3446.4	3359.6
40°	3313.8	3360.2	3323.4	3134.9	3064.7
42.5°	3084.4	3137.9	3043.3	2857.3	2814.4
45°	2847.1	2909.0	2765.7	2623.0	2586.2
47.5°	2614.7	2671.2	2508.9	2394.1	2339.4
50°	2392.3	2416.7	2273.4	2143.8	2083.2
52.5°	2173.6	2149.2	2047.5	1886.4	1832.9
55°	1954.2	1881.6	1797.8	1639.1	1604.0
57.5°	1734.2	1633.1	1541.6	1419.7	1406.0
60°	1519.0	1394.7	1300.8	1228.3	1234.8
62.5°	1313.9	1187.3	1086.8	1063.6	1088.6
65°	1126.0	1007.1	904.9	932.8	959.0
67.5°	969.7	855.5	751.5	822.8	843.6
70°	822.8	730.7	630.8	722.9	739.0
72.5°	705.7	627.2	540.4	630.2	643.9
75°	595.1	533.3	467.9	535.7	557.7
77.5°	498.8	447.7	403.1	442.9	466.7
80°	402.5	359.1	332.3	350.2	365.0
82.5°	294.9	266.9	247.3	255.0	257.4
85°	178.9	168.8	152.8	161.1	159.9
87.5°	58.9	67.2	70.7	63.6	60.0
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)