

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-W-CLWG-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 (P33385)
Test Lab: INNOVATION CENTER-P3
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: HBLED-LD5-12SE-W-CLWG-UNV-L850-ED1-U
Description: METALUX HIGH BAY LINEAR LED
WIDE DISTRIBUTION WITH CLEAR LENS, WIREGUARD & DOORFRAME
Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

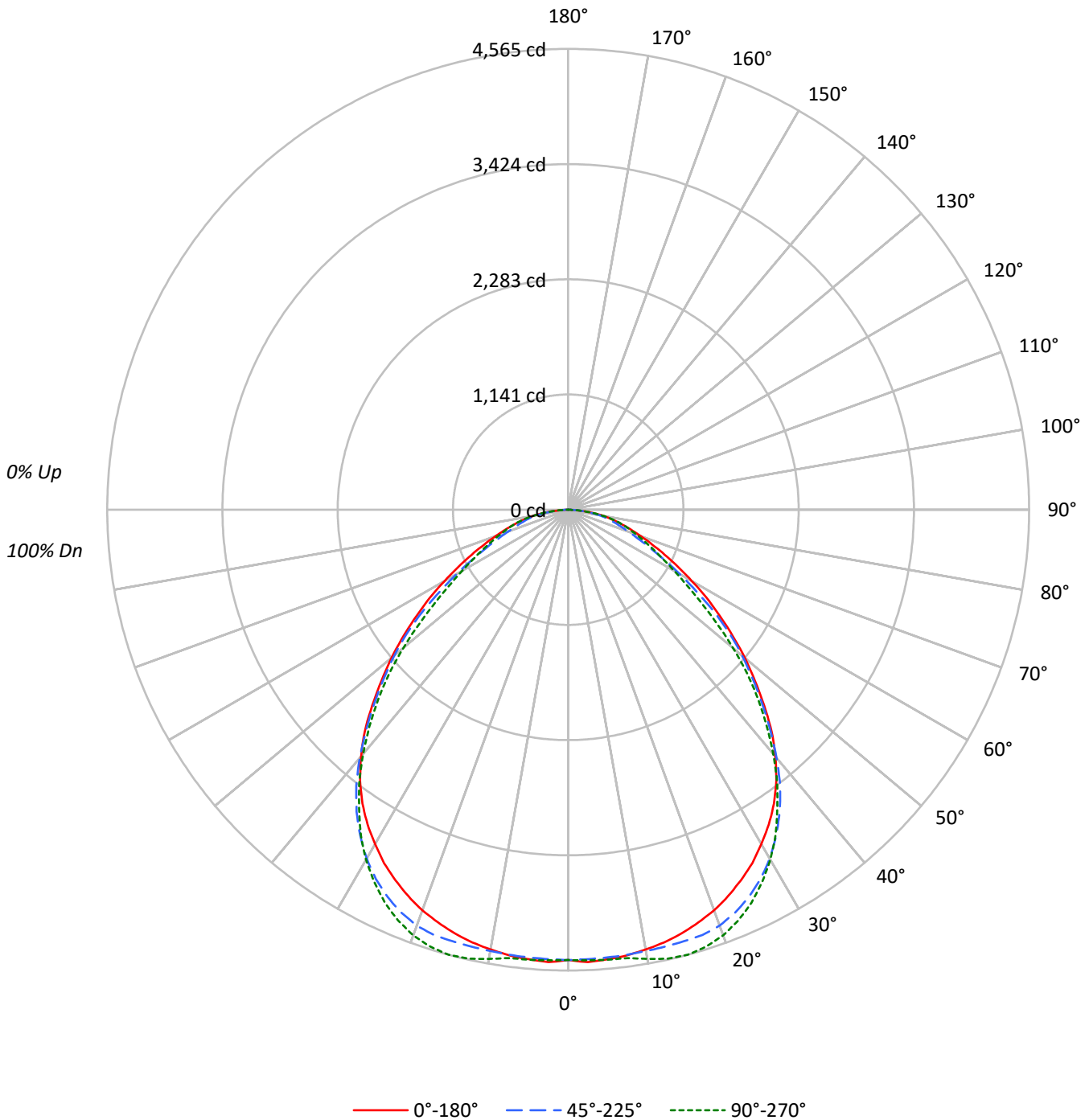
Lumens per Lamp: N/A
Luminaire Lumens: 11127.0 lumens
Efficiency: N/A
Efficacy: 145.3 lumens/watt
Spacing Criteria (0/90/45): 1.27 / 1.3 / 1.33
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

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	110	105	102	98	107	103	100	96	99	96	93	95	93	91	92	90	88					86				
2	101	93	87	82	98	91	86	81	88	83	79	85	81	77	82	78	75					73				
3	92	83	75	69	90	81	74	68	78	72	67	76	70	66	73	69	65					63				
4	85	74	66	59	83	73	65	59	70	64	58	68	62	57	66	61	57					55				
5	79	67	58	52	77	65	57	52	63	56	51	61	55	50	60	54	50					48				
6	73	60	52	46	71	59	51	45	58	50	45	56	50	45	54	49	44					42				
7	68	55	46	41	66	54	46	40	53	45	40	51	45	40	50	44	40					38				
8	63	50	42	36	62	50	42	36	48	41	36	47	41	36	46	40	36					34				
9	59	46	38	33	58	46	38	33	45	38	33	43	37	33	42	37	32					31				
10	56	43	35	30	54	42	35	30	41	34	30	40	34	30	39	34	30					28				

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	6003	6003	6003
5°	6038	6014	6043
10°	6044	6064	6173
15°	6051	6165	6359
20°	6047	6278	6425
25°	6010	6284	6376
30°	5941	6200	6220
35°	5835	6000	5928
40°	5605	5639	5550
45°	5222	5168	5063
50°	4782	4704	4464
55°	4295	4136	3774
60°	3809	3422	3258
65°	3356	2843	2957
70°	3002	2467	2816
75°	2812	2399	2848
80°	2737	2425	2710
85°	2184	1919	1990



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	425.0	3.8
10°-20°	1251.9	11.3
20°-30°	1925.9	17.3
30°-40°	2247.6	20.2
40°-50°	2088.7	18.8
50°-60°	1548.2	13.9
60°-70°	946.4	8.5
70°-80°	539.1	4.8
80°-90°	154.2	1.4
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°	3602.8	32.4
0°-40°	5850.5	52.6
0°-60°	9487.3	85.3
0°-90°	11127.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	11127.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	4462	4462	4462	4462	4462	
5°	4471	4450	4452	4449	4474	425
15°	4344	4342	4426	4513	4565	1226
25°	4048	4080	4233	4268	4295	1865
35°	3552	3580	3653	3623	3609	2213
45°	2745	2761	2716	2673	2661	2115
55°	1831	1785	1763	1638	1609	1643
65°	1054	958	893	917	929	1055
75°	541	508	462	526	548	579
85°	142	138	124	129	129	163
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	4461.6	4461.6	4461.6	4461.6	4461.6
2.5°	4485.8	4460.5	4455.9	4445.5	4468.5
5°	4470.8	4450.1	4452.4	4448.9	4474.3
7.5°	4453.6	4438.6	4447.8	4446.6	4480.0
10°	4423.6	4415.6	4438.6	4463.9	4518.0
12.5°	4390.3	4382.2	4432.8	4497.3	4556.0
15°	4344.2	4341.9	4425.9	4513.4	4565.2
17.5°	4286.7	4290.1	4417.9	4492.7	4538.7
20°	4223.4	4229.1	4384.5	4445.5	4486.9
22.5°	4141.7	4161.3	4320.1	4370.7	4402.9
25°	4048.5	4079.5	4232.6	4268.3	4294.7
27.5°	3948.4	3979.4	4124.4	4142.8	4157.8
30°	3824.1	3867.8	3990.9	3993.2	4003.6
32.5°	3697.5	3736.6	3831.0	3820.6	3822.9
35°	3552.5	3580.1	3652.6	3622.7	3608.9
37.5°	3385.6	3400.6	3446.6	3401.7	3399.4
40°	3191.1	3210.7	3210.7	3148.6	3160.1
42.5°	2984.0	2990.9	2962.1	2903.4	2912.6
45°	2744.6	2760.7	2715.9	2673.3	2660.6
47.5°	2507.6	2523.7	2476.5	2427.0	2405.1
50°	2284.3	2276.3	2247.5	2163.5	2132.4
52.5°	2053.0	2027.7	2016.2	1893.0	1857.4
55°	1830.9	1784.9	1763.0	1637.6	1608.8
57.5°	1624.9	1542.1	1500.6	1402.8	1391.3
60°	1415.5	1322.3	1271.6	1208.3	1210.6
62.5°	1225.6	1127.8	1066.8	1048.4	1056.4
65°	1054.1	957.5	893.0	917.2	928.7
67.5°	898.8	819.4	746.9	803.3	814.8
70°	763.0	699.7	627.2	710.0	715.8
72.5°	650.2	598.4	537.4	615.7	628.3
75°	540.9	507.5	461.5	525.9	547.8
77.5°	445.4	418.9	392.4	431.5	455.7
80°	353.3	326.8	313.0	333.7	349.8
82.5°	249.7	232.5	218.6	233.6	241.7
85°	141.5	138.1	124.3	128.9	128.9
87.5°	32.2	36.8	41.4	38.0	32.2
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)