

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-CLI-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 (P23766)
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-CLI-UNV-L850-ED1-U
Description: METALUX HIGH BAY LINEAR LED
Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

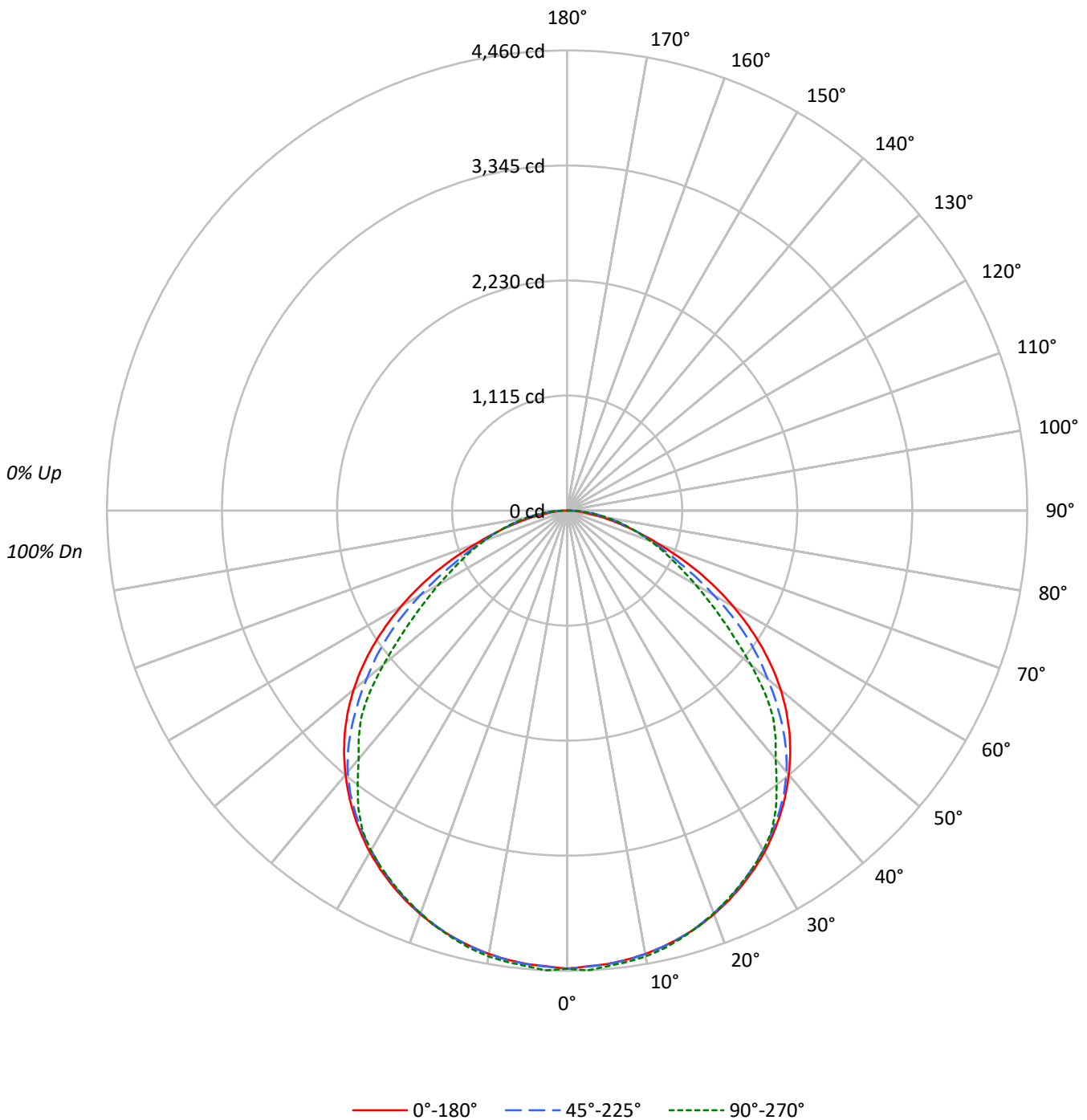
Lumens per Lamp: N/A
Luminaire Lumens: 11929.0 lumens
Efficiency: N/A
Efficacy: 164.3 lumens/watt
Spacing Criteria (0/90/45): 1.28 / 1.27 / 1.37
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

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	109	105	101	97	107	102	99	95	98	95	92	94	92	90	91	89	87	85
2	100	92	85	80	97	90	84	79	86	81	77	83	79	75	80	77	74	71
3	91	81	73	67	89	79	72	66	77	70	65	74	68	64	71	67	63	61
4	84	72	64	57	81	71	63	57	68	61	56	66	60	55	64	59	54	52
5	77	65	56	49	75	63	55	49	61	54	48	59	53	48	58	52	47	45
6	71	58	49	43	69	57	49	43	55	48	43	54	47	42	52	46	42	40
7	66	53	44	38	64	52	44	38	50	43	38	49	42	37	48	42	37	35
8	62	48	40	34	60	48	40	34	46	39	34	45	38	34	44	38	33	31
9	58	44	36	31	56	44	36	31	43	35	30	41	35	30	40	35	30	28
10	54	41	33	28	53	40	33	28	39	32	28	38	32	28	38	32	27	26

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	5974	5974	5974
5°	5958	5962	5989
10°	5961	5964	5995
15°	5962	5961	5975
20°	5961	5947	5948
25°	5951	5929	5922
30°	5942	5906	5909
35°	5914	5877	5794
40°	5872	5812	5519
45°	5797	5612	5366
50°	5658	5313	4860
55°	5400	4969	4297
60°	5012	4434	3876
65°	4455	3839	3564
70°	3697	3430	3359
75°	2990	3139	3178
80°	2375	3002	2990
85°	1860	3225	3077



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	421.1	3.5
10°-20°	1211.2	10.2
20°-30°	1846.8	15.5
30°-40°	2234.4	18.7
40°-50°	2263.2	19.0
50°-60°	1870.6	15.7
60°-70°	1235.5	10.4
70°-80°	644.2	5.4
80°-90°	202.0	1.7
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°	3479.1	29.2
0°-40°	5713.4	47.9
0°-60°	9847.3	82.5
0°-90°	11929.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	11929.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	4440	4440	4440	4440	4440	
5°	4411	4438	4414	4434	4434	420
15°	4280	4302	4280	4293	4290	1209
25°	4009	4025	3994	4004	3989	1848
35°	3600	3605	3578	3573	3528	2252
45°	3047	3039	2949	2858	2820	2346
55°	2302	2268	2118	1912	1832	2052
65°	1399	1359	1206	1127	1119	1382
75°	575	585	604	612	611	627
85°	120	155	209	207	199	146
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	4440.0	4440.0	4440.0	4440.0	4440.0
2.5°	4421.4	4447.5	4425.6	4444.8	4460.3
5°	4411.3	4437.9	4414.5	4433.6	4434.2
7.5°	4391.5	4418.2	4394.2	4413.4	4412.9
10°	4363.3	4388.3	4365.4	4388.3	4388.3
12.5°	4324.9	4349.4	4327.0	4348.4	4345.2
15°	4280.1	4302.0	4279.6	4292.9	4289.7
17.5°	4227.4	4247.1	4222.0	4233.2	4226.8
20°	4162.9	4181.0	4153.3	4167.7	4154.3
22.5°	4090.4	4107.4	4079.2	4089.8	4074.9
25°	4008.8	4024.8	3993.9	4004.0	3989.1
27.5°	3920.9	3935.3	3900.6	3912.9	3901.2
30°	3824.4	3831.3	3801.5	3817.5	3803.6
32.5°	3716.7	3721.0	3694.9	3709.3	3685.8
35°	3600.5	3605.3	3578.2	3573.4	3527.5
37.5°	3476.3	3478.5	3452.9	3409.7	3334.0
40°	3343.1	3342.0	3309.0	3209.3	3142.1
42.5°	3200.8	3200.2	3142.1	3028.6	2990.2
45°	3046.7	3038.7	2949.2	2857.5	2820.2
47.5°	2881.5	2873.0	2747.7	2674.7	2589.9
50°	2702.9	2688.0	2538.2	2438.6	2321.8
52.5°	2510.5	2487.6	2335.2	2174.2	2063.8
55°	2302.1	2268.0	2118.2	1912.5	1832.0
57.5°	2085.2	2034.5	1889.0	1688.6	1623.0
60°	1862.4	1805.9	1647.6	1482.9	1440.2
62.5°	1633.2	1577.2	1415.7	1291.5	1268.1
65°	1399.2	1358.7	1205.7	1127.3	1119.3
67.5°	1159.3	1144.9	1028.2	988.2	985.0
70°	939.7	937.0	872.0	851.8	853.9
72.5°	751.0	747.8	738.2	728.1	728.6
75°	575.1	585.3	603.9	611.9	611.4
77.5°	429.1	449.9	489.3	505.3	502.6
80°	306.5	337.4	387.5	402.4	385.9
82.5°	204.1	236.7	295.8	298.0	284.6
85°	120.5	155.1	208.9	207.3	199.3
87.5°	59.7	93.3	125.3	119.9	114.6
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)