

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-L835-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-L835-ED1-U
Description: METALUX HIGH BAY LINEAR LED
Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

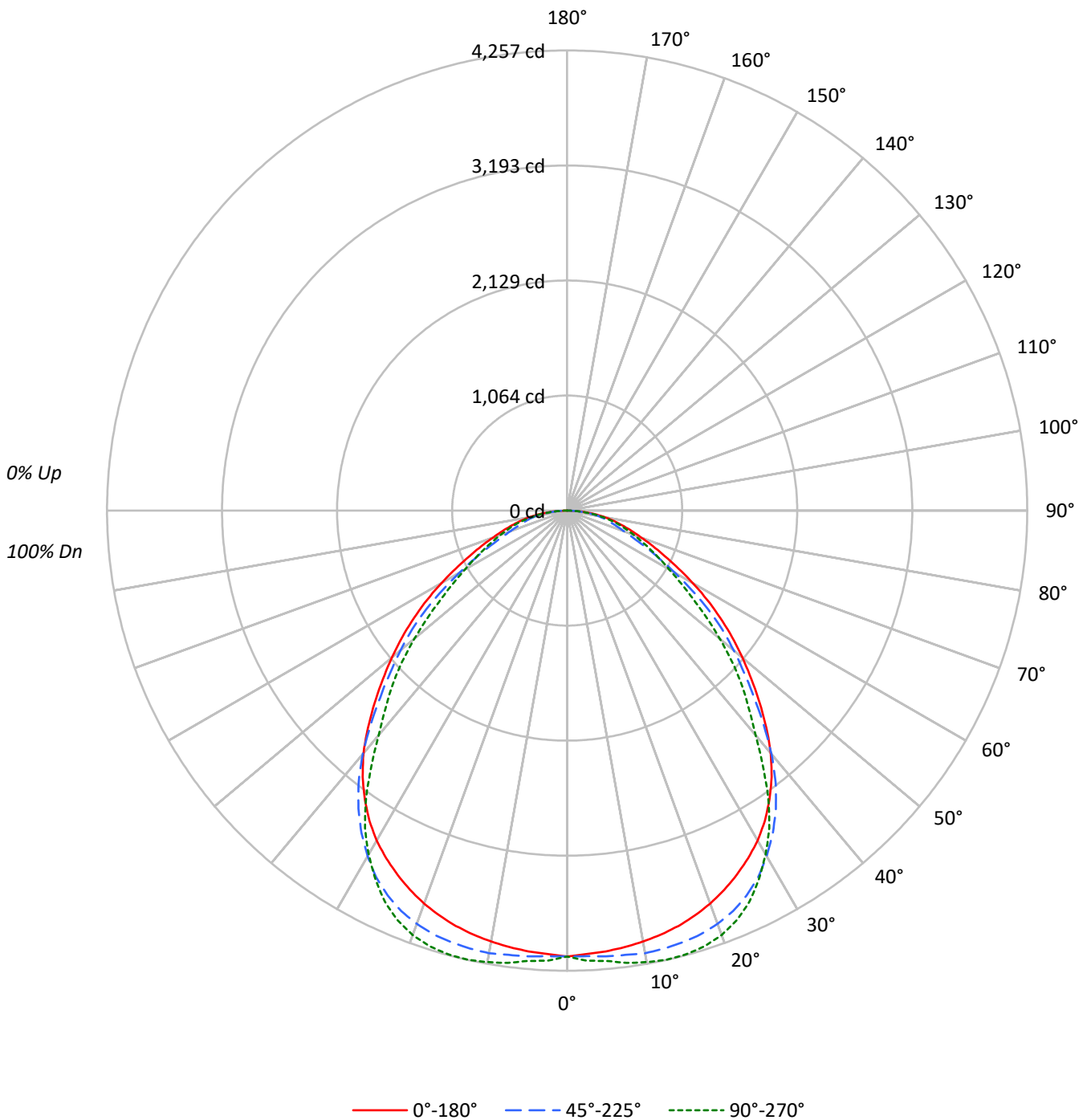
Lumens per Lamp: N/A
Luminaire Lumens: 10226.0 lumens
Efficiency: N/A
Efficacy: 140.9 lumens/watt
Spacing Criteria (0/90/45): 1.26 / 1.28 / 1.32
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

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





TEST NUMBER: P#

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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°	5550	5550	5550
5°	5529	5591	5648
10°	5530	5680	5795
15°	5541	5759	5921
20°	5540	5825	5982
25°	5516	5833	5927
30°	5475	5736	5705
35°	5359	5528	5327
40°	5149	5164	4762
45°	4793	4656	4353
50°	4430	4210	3858
55°	4055	3731	3329
60°	3616	3097	2940
65°	3172	2549	2701
70°	2864	2195	2572
75°	2737	2152	2564
80°	2759	2278	2502
85°	2444	2087	2184



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	396.3	3.9
10°-20°	1167.8	11.4
20°-30°	1791.2	17.5
30°-40°	2060.1	20.1
40°-50°	1879.0	18.4
50°-60°	1408.3	13.8
60°-70°	866.3	8.5
70°-80°	496.4	4.9
80°-90°	160.7	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°	3355.2	32.8
0°-40°	5415.3	53.0
0°-60°	8702.6	85.1
0°-90°	10226.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	10226.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	4125	4125	4125	4125	4125	
5°	4094	4135	4139	4174	4181	389
15°	3978	4066	4135	4223	4251	1123
25°	3715	3822	3929	3989	3992	1712
35°	3262	3326	3366	3310	3243	2035
45°	2519	2574	2447	2320	2288	1944
55°	1729	1665	1590	1450	1419	1545
65°	996	891	800	825	848	1002
75°	526	472	414	474	493	563
85°	158	149	135	142	142	177
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	4125.1	4125.1	4125.1	4125.1	4125.1
2.5°	4105.6	4135.1	4125.6	4149.8	4167.7
5°	4093.5	4135.1	4139.3	4173.5	4181.4
7.5°	4073.0	4127.2	4146.1	4206.6	4220.3
10°	4047.8	4113.0	4157.7	4222.9	4241.3
12.5°	4017.3	4093.0	4149.8	4230.3	4256.6
15°	3977.8	4066.2	4134.6	4222.9	4250.8
17.5°	3927.9	4030.4	4110.4	4197.1	4226.1
20°	3868.9	3977.3	4068.3	4157.2	4177.7
22.5°	3797.9	3906.8	4010.4	4090.4	4101.4
25°	3715.4	3822.1	3928.9	3989.4	3992.5
27.5°	3625.4	3724.8	3824.8	3857.4	3843.2
30°	3523.9	3612.8	3691.7	3698.5	3672.2
32.5°	3403.5	3483.4	3539.7	3525.0	3480.8
35°	3262.5	3326.2	3365.6	3310.4	3243.1
37.5°	3107.9	3155.7	3168.9	3049.0	2972.2
40°	2931.7	2972.7	2940.1	2773.4	2711.3
42.5°	2728.7	2776.0	2692.4	2527.8	2489.9
45°	2518.8	2573.5	2446.8	2320.5	2287.9
47.5°	2313.2	2363.1	2219.5	2118.0	2069.6
50°	2116.5	2138.0	2011.3	1896.6	1843.0
52.5°	1922.9	1901.3	1811.4	1668.9	1621.5
55°	1728.8	1664.7	1590.5	1450.1	1419.0
57.5°	1534.2	1444.8	1363.8	1256.0	1243.9
60°	1343.8	1233.9	1150.8	1086.6	1092.4
62.5°	1162.4	1050.3	961.5	940.9	963.0
65°	996.2	891.0	800.5	825.2	848.4
67.5°	857.8	756.9	664.8	727.9	746.3
70°	727.9	646.4	558.0	639.6	653.8
72.5°	624.3	554.9	478.1	557.5	569.6
75°	526.5	471.8	413.9	473.9	493.3
77.5°	441.3	396.0	356.6	391.8	412.9
80°	356.1	317.7	294.0	309.8	322.9
82.5°	260.9	236.2	218.8	225.6	227.7
85°	158.3	149.4	135.2	142.5	141.5
87.5°	52.1	59.4	62.6	56.3	53.1
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)