

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-FLI-UNV-L735-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 (P26703)
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-FLI-UNV-L735-ED1-U
Description: METALUX HIGH BAY LINEAR LED
Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

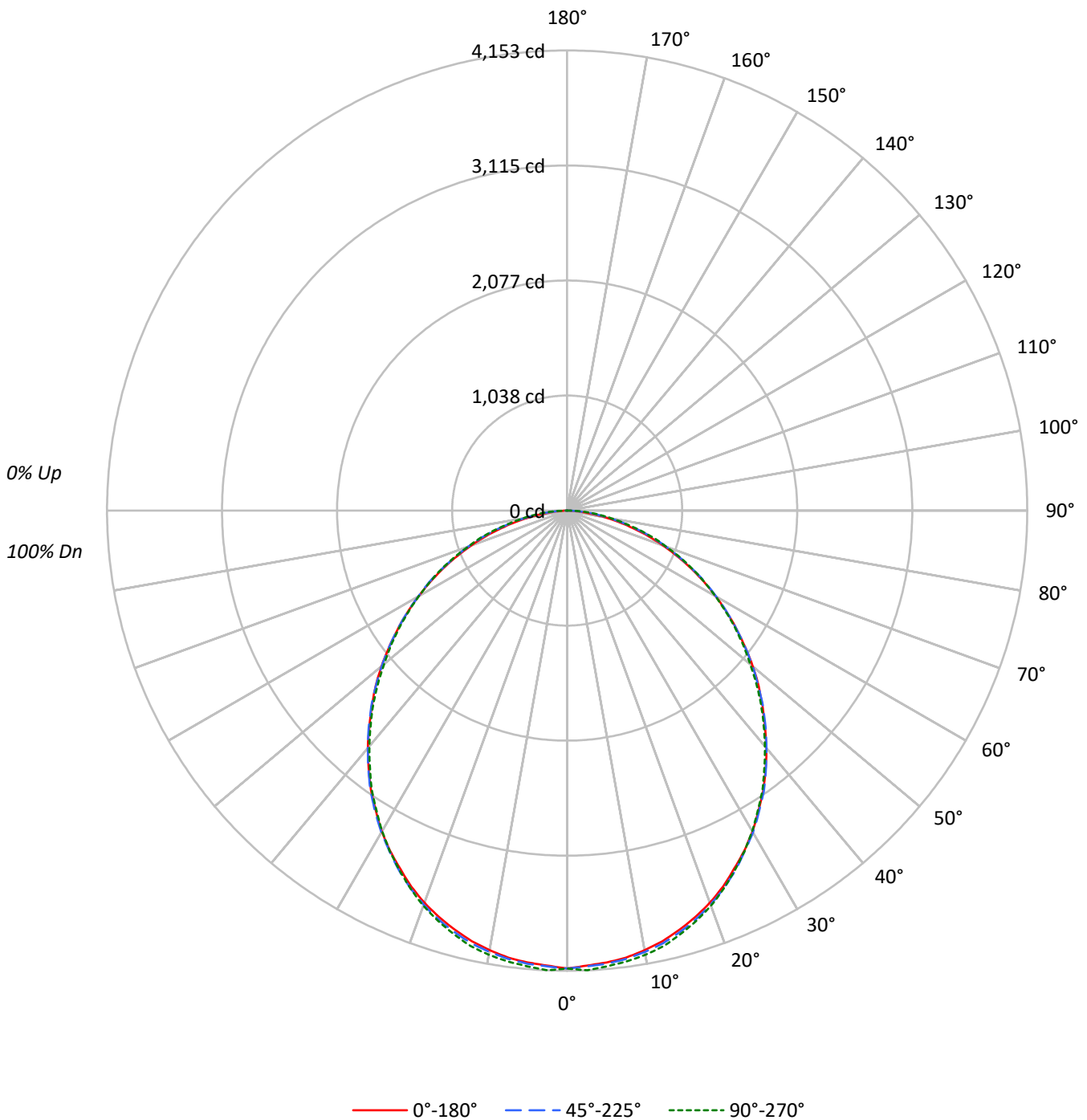
Lumens per Lamp: N/A
Luminaire Lumens: 10795.0 lumens
Efficiency: N/A
Efficacy: 148.7 lumens/watt
Spacing Criteria (0/90/45): 1.2 / 1.2 / 1.31
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

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	104	100	96	106	102	98	95	98	95	92		94	91	89		90	88	86	84
2	99	91	85	79	97	89	83	78	86	81	76		83	78	74		80	76	73	71
3	91	80	72	66	88	79	71	65	76	69	64		73	68	63		71	66	62	60
4	83	71	63	56	81	70	62	56	68	61	55		65	59	54		63	58	53	51
5	77	64	55	49	75	63	54	48	61	53	48		59	52	47		57	51	47	45
6	71	58	49	42	69	57	48	42	55	47	42		53	47	42		52	46	41	39
7	66	52	44	38	64	52	43	38	50	43	37		49	42	37		47	41	37	35
8	61	48	39	34	60	47	39	34	46	39	33		45	38	33		43	37	33	31
9	57	44	36	30	56	43	36	30	42	35	30		41	35	30		40	34	30	28
10	54	41	33	28	52	40	33	28	39	32	27		38	32	27		37	31	27	25

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	5560	5560	5560
5°	5529	5544	5576
10°	5504	5526	5562
15°	5455	5485	5512
20°	5393	5419	5435
25°	5294	5324	5316
30°	5196	5210	5189
35°	5067	5080	5048
40°	4915	4915	4877
45°	4743	4756	4708
50°	4580	4572	4515
55°	4382	4383	4343
60°	4170	4175	4158
65°	3930	3969	3979
70°	3630	3729	3733
75°	3208	3415	3469
80°	2631	2992	3161
85°	1826	2512	2841



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	390.8	3.6
10°-20°	1111.9	10.3
20°-30°	1652.3	15.3
30°-40°	1932.0	17.9
40°-50°	1926.2	17.8
50°-60°	1671.2	15.5
60°-70°	1234.4	11.4
70°-80°	691.1	6.4
80°-90°	184.4	1.7
90°-100°	0.6	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°	3155.0	29.2
0°-40°	5087.0	47.1
0°-60°	8684.5	80.4
0°-90°	10794.5	100.0
90°-120°	0.6	0.0
90°-150°	0.6	0.0
90°-180°	1.0	0.0
0°-180°	10795.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	4133	4133	4133	4133	4133	
5°	4094	4119	4105	4123	4128	389
15°	3916	3944	3938	3957	3957	1105
25°	3566	3594	3586	3594	3581	1644
35°	3085	3112	3093	3092	3073	1927
45°	2493	2519	2500	2489	2474	1924
55°	1868	1881	1868	1865	1852	1670
65°	1234	1246	1247	1253	1250	1221
75°	617	636	657	662	667	657
85°	118	143	163	177	184	144
90°	0	3	3	7	7	5
95°	0	0	0	0	0	0
105°	0	0	0	0	0	0
115°	0	0	0	0	0	0
125°	0	0	0	0	0	0
135°	0	0	0	0	0	0
145°	0	0	0	0	0	0
155°	0	0	0	0	0	0
165°	0	0	0	0	0	0
175°	0	0	0	0	0	0
180°	0	0	0	0	0	0



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	4132.6	4132.6	4132.6	4132.6	4132.6
2.5°	4110.0	4134.5	4117.4	4133.7	4152.6
5°	4093.5	4119.2	4105.0	4123.2	4128.4
7.5°	4069.3	4094.3	4080.6	4098.7	4104.2
10°	4028.3	4055.4	4044.6	4065.1	4070.9
12.5°	3980.5	4006.0	3998.9	4022.8	4026.7
15°	3916.3	3943.7	3937.6	3956.6	3956.8
17.5°	3845.4	3871.1	3866.7	3881.4	3880.9
20°	3766.8	3794.4	3784.9	3801.0	3796.0
22.5°	3673.8	3703.2	3691.4	3704.8	3692.2
25°	3565.8	3594.4	3586.0	3593.9	3580.7
27.5°	3461.2	3487.4	3470.1	3479.6	3465.6
30°	3344.5	3366.8	3353.4	3356.6	3339.7
32.5°	3213.3	3239.9	3223.6	3223.1	3205.2
35°	3085.1	3112.2	3093.0	3092.4	3073.3
37.5°	2943.2	2968.4	2945.8	2947.1	2924.8
40°	2798.4	2820.2	2798.4	2797.3	2776.8
42.5°	2641.2	2670.1	2650.1	2652.5	2625.2
45°	2492.7	2519.3	2499.6	2489.3	2474.1
47.5°	2344.8	2356.3	2340.0	2337.4	2315.9
50°	2188.1	2196.8	2184.4	2181.3	2157.1
52.5°	2026.2	2041.2	2025.4	2021.2	2005.2
55°	1868.0	1880.9	1868.3	1865.1	1851.5
57.5°	1708.8	1725.6	1712.7	1709.6	1698.5
60°	1549.5	1554.5	1551.3	1556.1	1545.3
62.5°	1391.3	1402.9	1406.5	1405.2	1396.8
65°	1234.4	1246.5	1246.8	1253.1	1249.9
67.5°	1073.8	1089.6	1094.1	1100.6	1103.5
70°	922.7	934.8	947.9	951.9	949.0
72.5°	770.5	790.0	804.7	808.1	820.5
75°	617.1	635.5	657.0	661.7	667.3
77.5°	474.6	499.1	518.5	524.8	531.7
80°	339.5	366.6	386.1	394.7	407.9
82.5°	222.9	250.5	270.2	278.8	294.9
85°	118.3	143.0	162.7	177.1	184.0
87.5°	35.0	56.0	67.3	71.5	77.5
90°	0.0	2.6	3.2	7.1	6.6
92.5°	0.0	0.0	0.0	0.0	0.0
95°	0.0	0.0	0.0	0.0	0.0
97.5°	0.0	0.0	0.0	0.0	0.0
100°	0.0	0.0	0.0	0.0	0.0
102.5°	0.0	0.0	0.0	0.0	0.0
105°	0.0	0.0	0.0	0.0	0.0
107.5°	0.0	0.0	0.0	0.0	0.0
110°	0.0	0.0	0.0	0.0	0.0



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	0.0	0.0	0.0	0.0	0.0
115°	0.0	0.0	0.0	0.0	0.0
117.5°	0.0	0.0	0.0	0.0	0.0
120°	0.0	0.0	0.0	0.0	0.0
122.5°	0.0	0.0	0.0	0.0	0.0
125°	0.0	0.0	0.0	0.0	0.0
127.5°	0.0	0.0	0.0	0.0	0.0
130°	0.0	0.0	0.0	0.0	0.0
132.5°	0.0	0.0	0.0	0.0	0.0
135°	0.0	0.0	0.0	0.0	0.0
137.5°	0.0	0.0	0.0	0.0	0.0
140°	0.0	0.0	0.0	0.0	0.0
142.5°	0.0	0.0	0.0	0.0	0.0
145°	0.0	0.0	0.0	0.0	0.0
147.5°	0.0	0.0	0.0	0.0	0.0
150°	0.0	0.0	0.0	0.0	0.0
152.5°	0.0	0.0	0.0	0.0	0.0
155°	0.0	0.0	0.0	0.0	0.0
157.5°	0.0	0.0	0.0	0.0	0.0
160°	0.0	0.0	0.0	0.0	0.0
162.5°	0.0	0.0	0.0	0.0	0.0
165°	0.0	0.0	0.0	0.0	0.0
167.5°	0.0	0.0	0.0	0.0	0.0
170°	0.0	0.0	0.0	0.0	0.0
172.5°	0.0	0.0	0.0	0.0	0.0
175°	0.0	0.0	0.0	0.0	0.0
177.5°	0.0	0.0	0.0	0.0	0.0
180°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)