

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-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-LD5-12SE-W-FLI-UNV-L735-ED1-U
Description: METALUX HIGH BAY LINEAR LED
Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

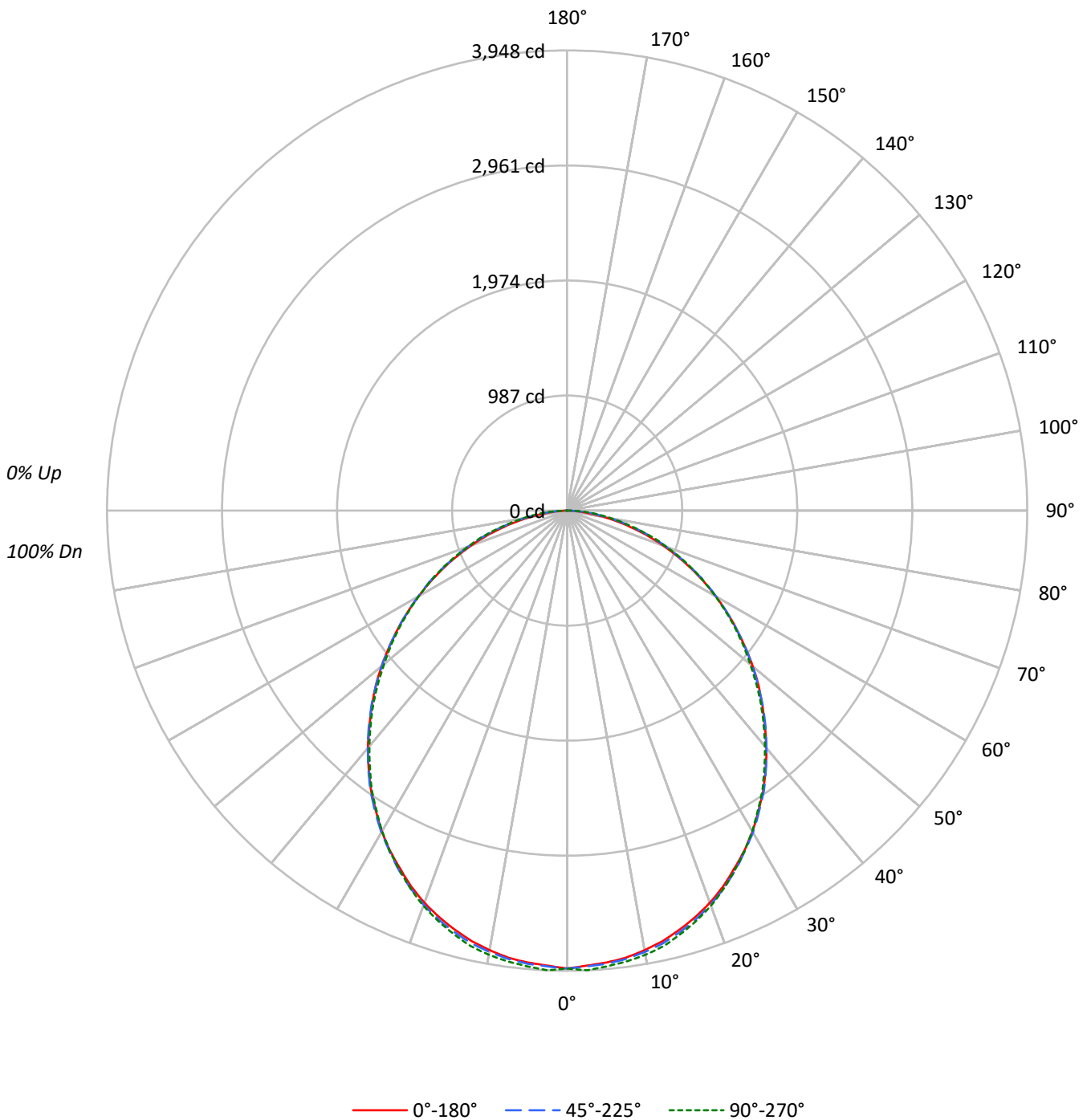
Lumens per Lamp: N/A
Luminaire Lumens: 10262.0 lumens
Efficiency: N/A
Efficacy: 134.0 lumens/watt
Spacing Criteria (0/90/45): 1.2 / 1.2 / 1.31
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

Input Watts (W): 76.6
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°	5286	5286	5286
5°	5256	5271	5301
10°	5232	5253	5287
15°	5186	5214	5239
20°	5127	5152	5167
25°	5032	5061	5053
30°	4939	4953	4932
35°	4817	4830	4799
40°	4672	4672	4636
45°	4509	4521	4475
50°	4354	4347	4292
55°	4166	4166	4129
60°	3964	3968	3953
65°	3736	3773	3783
70°	3451	3545	3549
75°	3049	3247	3297
80°	2501	2844	3004
85°	1735	2387	2700



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	371.5	3.6
10°-20°	1057.0	10.3
20°-30°	1570.7	15.3
30°-40°	1836.6	17.9
40°-50°	1831.1	17.8
50°-60°	1588.7	15.5
60°-70°	1173.5	11.4
70°-80°	657.0	6.4
80°-90°	175.3	1.7
90°-100°	0.5	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°	2999.2	29.2
0°-40°	4835.8	47.1
0°-60°	8255.7	80.4
0°-90°	10261.4	100.0
90°-120°	0.5	0.0
90°-150°	0.5	0.0
90°-180°	1.0	0.0
0°-180°	10262.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	3929	3929	3929	3929	3929	
5°	3891	3916	3902	3920	3925	370
15°	3723	3749	3743	3761	3761	1050
25°	3390	3417	3409	3416	3404	1563
35°	2933	2958	2940	2940	2922	1832
45°	2370	2395	2376	2366	2352	1829
55°	1776	1788	1776	1773	1760	1588
65°	1174	1185	1185	1191	1188	1161
75°	587	604	625	629	634	625
85°	112	136	155	168	175	137
90°	0	2	3	7	6	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°	3928.6	3928.6	3928.6	3928.6	3928.6
2.5°	3907.1	3930.3	3914.1	3929.6	3947.6
5°	3891.4	3915.8	3902.4	3919.6	3924.6
7.5°	3868.4	3892.1	3879.1	3896.4	3901.6
10°	3829.4	3855.1	3844.9	3864.4	3869.9
12.5°	3783.9	3808.2	3801.4	3824.2	3827.9
15°	3723.0	3749.0	3743.2	3761.2	3761.4
17.5°	3655.5	3680.0	3675.8	3689.7	3689.2
20°	3580.8	3607.1	3598.1	3613.3	3608.6
22.5°	3492.4	3520.4	3509.1	3521.9	3509.9
25°	3389.7	3416.9	3408.9	3416.4	3403.9
27.5°	3290.3	3315.2	3298.8	3307.8	3294.5
30°	3179.3	3200.6	3187.8	3190.8	3174.8
32.5°	3054.7	3079.9	3064.4	3063.9	3046.9
35°	2932.8	2958.5	2940.3	2939.8	2921.5
37.5°	2797.9	2821.8	2800.3	2801.6	2780.4
40°	2660.2	2680.9	2660.2	2659.2	2639.7
42.5°	2510.8	2538.3	2519.3	2521.5	2495.6
45°	2369.6	2394.9	2376.1	2366.4	2351.9
47.5°	2229.0	2240.0	2224.5	2222.0	2201.5
50°	2080.1	2088.3	2076.6	2073.6	2050.6
52.5°	1926.2	1940.4	1925.4	1921.4	1906.2
55°	1775.8	1788.0	1776.0	1773.0	1760.1
57.5°	1624.4	1640.4	1628.1	1625.1	1614.7
60°	1473.0	1477.7	1474.7	1479.2	1469.0
62.5°	1322.6	1333.6	1337.1	1335.8	1327.8
65°	1173.5	1184.9	1185.2	1191.2	1188.2
67.5°	1020.8	1035.8	1040.0	1046.3	1049.0
70°	877.2	888.6	901.1	904.9	902.1
72.5°	732.5	751.0	765.0	768.2	780.0
75°	586.6	604.1	624.6	629.1	634.3
77.5°	451.2	474.4	492.9	498.9	505.4
80°	322.8	348.5	367.0	375.2	387.7
82.5°	211.9	238.1	256.8	265.1	280.3
85°	112.4	135.9	154.6	168.4	174.9
87.5°	33.2	53.2	64.0	68.0	73.7
90°	0.0	2.5	3.0	6.7	6.2
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)