

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-LD5-36SE-W-FLI-UNV-L735-ED3-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-LD5-36SE-W-FLI-UNV-L735-ED3-U
Description: METALUX HIGH BAY LINEAR LED
Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

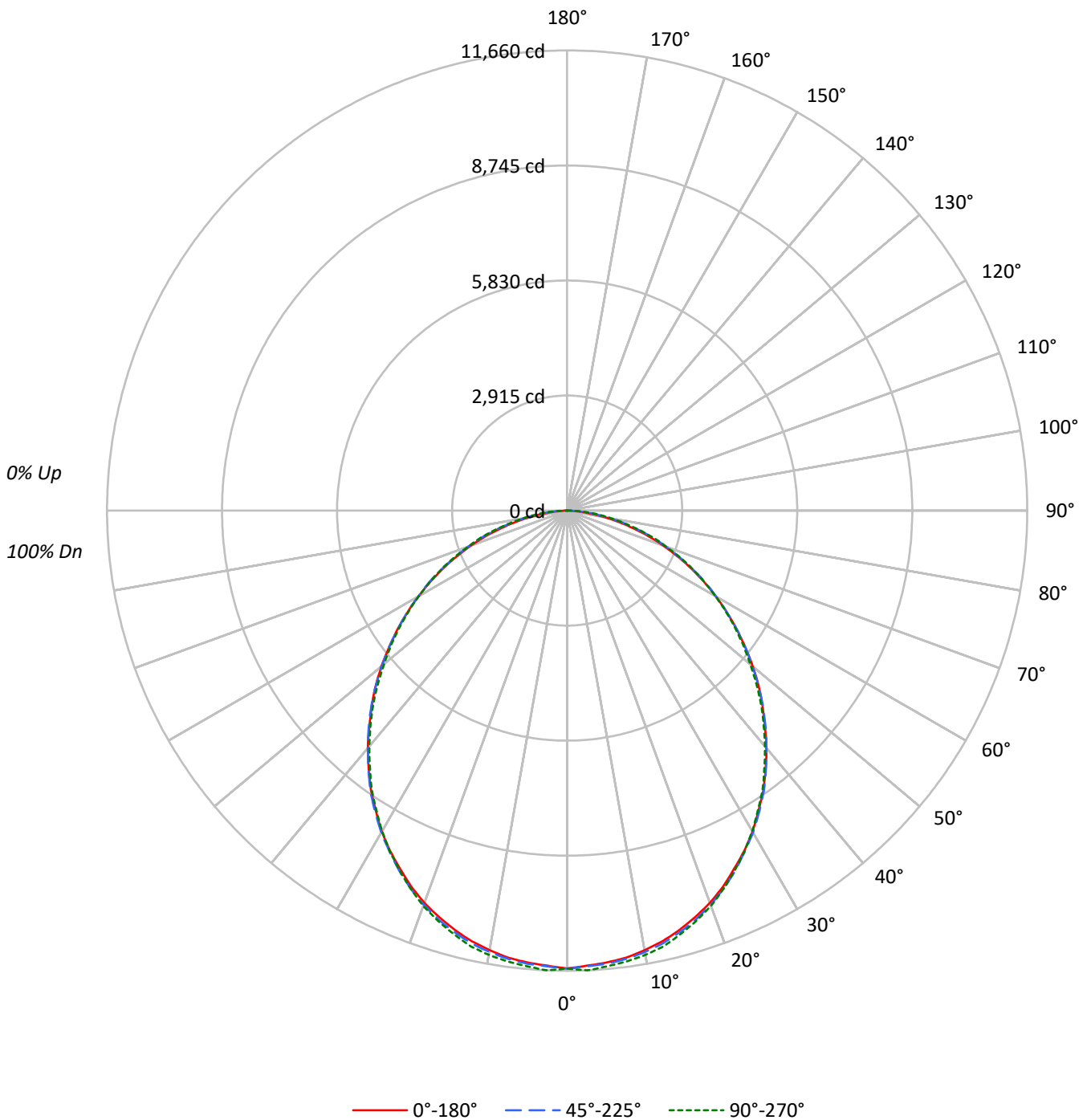
Lumens per Lamp: N/A
Luminaire Lumens: 30312.0 lumens
Efficiency: N/A
Efficacy: 130.7 lumens/watt
Spacing Criteria (0/90/45): 1.2 / 1.2 / 1.31
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

Input Watts (W): 232
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°	15613	15613	15613
5°	15525	15568	15657
10°	15454	15517	15617
15°	15318	15401	15477
20°	15145	15218	15262
25°	14864	14949	14927
30°	14591	14630	14570
35°	14229	14265	14174
40°	13801	13801	13695
45°	13319	13355	13219
50°	12861	12840	12679
55°	12305	12306	12196
60°	11708	11722	11677
65°	11035	11145	11174
70°	10192	10471	10483
75°	9008	9591	9741
80°	7387	8400	8874
85°	5127	7052	7975



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1097.5	3.6
10°-20°	3122.1	10.3
20°-30°	4639.6	15.3
30°-40°	5424.9	17.9
40°-50°	5408.8	17.8
50°-60°	4692.8	15.5
60°-70°	3466.2	11.4
70°-80°	1940.7	6.4
80°-90°	517.8	1.7
90°-100°	1.6	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°	8859.2	29.2
0°-40°	14284.1	47.1
0°-60°	24385.7	80.4
0°-90°	30310.5	100.0
90°-120°	1.6	0.0
90°-150°	1.6	0.0
90°-180°	2.0	0.0
0°-180°	30312.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	11604	11604	11604	11604	11604	
5°	11494	11567	11527	11578	11592	###
15°	10997	11074	11057	11110	11111	3101
25°	10012	10093	10069	10092	10055	4616
35°	8663	8739	8685	8684	8630	5411
45°	7000	7074	7019	6990	6947	5403
55°	5245	5282	5246	5237	5199	4690
65°	3466	3500	3501	3519	3510	3428
75°	1733	1784	1845	1858	1874	1845
85°	332	401	457	497	517	403
90°	0	7	9	20	18	13
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°	11604.3	11604.3	11604.3	11604.3	11604.3
2.5°	11540.8	11609.5	11561.5	11607.2	11660.4
5°	11494.3	11566.7	11526.8	11577.7	11592.5
7.5°	11426.4	11496.5	11458.2	11509.1	11524.6
10°	11311.3	11387.3	11357.1	11414.6	11430.9
12.5°	11177.0	11248.6	11228.7	11295.8	11306.9
15°	10997.0	11073.7	11056.7	11109.9	11110.6
17.5°	10797.7	10870.0	10857.5	10898.8	10897.3
20°	10577.1	10654.5	10628.0	10673.0	10659.0
22.5°	10315.8	10398.5	10365.3	10402.9	10367.5
25°	10012.5	10093.0	10069.4	10091.5	10054.6
27.5°	9718.8	9792.6	9743.9	9770.5	9731.4
30°	9391.2	9453.9	9416.3	9425.1	9377.9
32.5°	9022.9	9097.5	9051.7	9050.2	9000.1
35°	8662.8	8738.8	8685.0	8683.5	8629.6
37.5°	8264.3	8335.2	8271.7	8275.4	8212.7
40°	7857.7	7919.0	7857.7	7854.8	7797.2
42.5°	7416.4	7497.6	7441.5	7448.1	7371.4
45°	6999.5	7074.0	7018.7	6989.9	6947.1
47.5°	6584.0	6616.5	6570.7	6563.3	6502.8
50°	6144.2	6168.5	6133.9	6125.0	6057.1
52.5°	5689.6	5731.7	5687.4	5675.6	5630.6
55°	5245.4	5281.5	5246.1	5237.2	5198.9
57.5°	4798.2	4845.4	4809.2	4800.4	4769.4
60°	4351.0	4365.0	4356.1	4369.4	4339.2
62.5°	3906.7	3939.2	3949.5	3945.8	3922.2
65°	3466.2	3500.1	3500.8	3518.6	3509.7
67.5°	3015.3	3059.5	3072.1	3090.5	3098.7
70°	2590.9	2624.9	2661.8	2672.9	2664.7
72.5°	2163.7	2218.3	2259.6	2269.2	2303.9
75°	1732.7	1784.4	1844.9	1858.2	1873.7
77.5°	1332.7	1401.4	1456.0	1473.7	1492.9
80°	953.4	1029.4	1084.1	1108.4	1145.3
82.5°	625.8	703.3	758.6	783.0	828.0
85°	332.1	401.4	456.8	497.4	516.6
87.5°	98.1	157.2	188.9	200.7	217.7
90°	0.0	7.4	8.9	19.9	18.4
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)