

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-LD5-36HE-W-FLI-UNV-L750-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-LD5-36HE-W-FLI-UNV-L750-ED3-U
Description: METALUX HIGH BAY LINEAR LED
Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

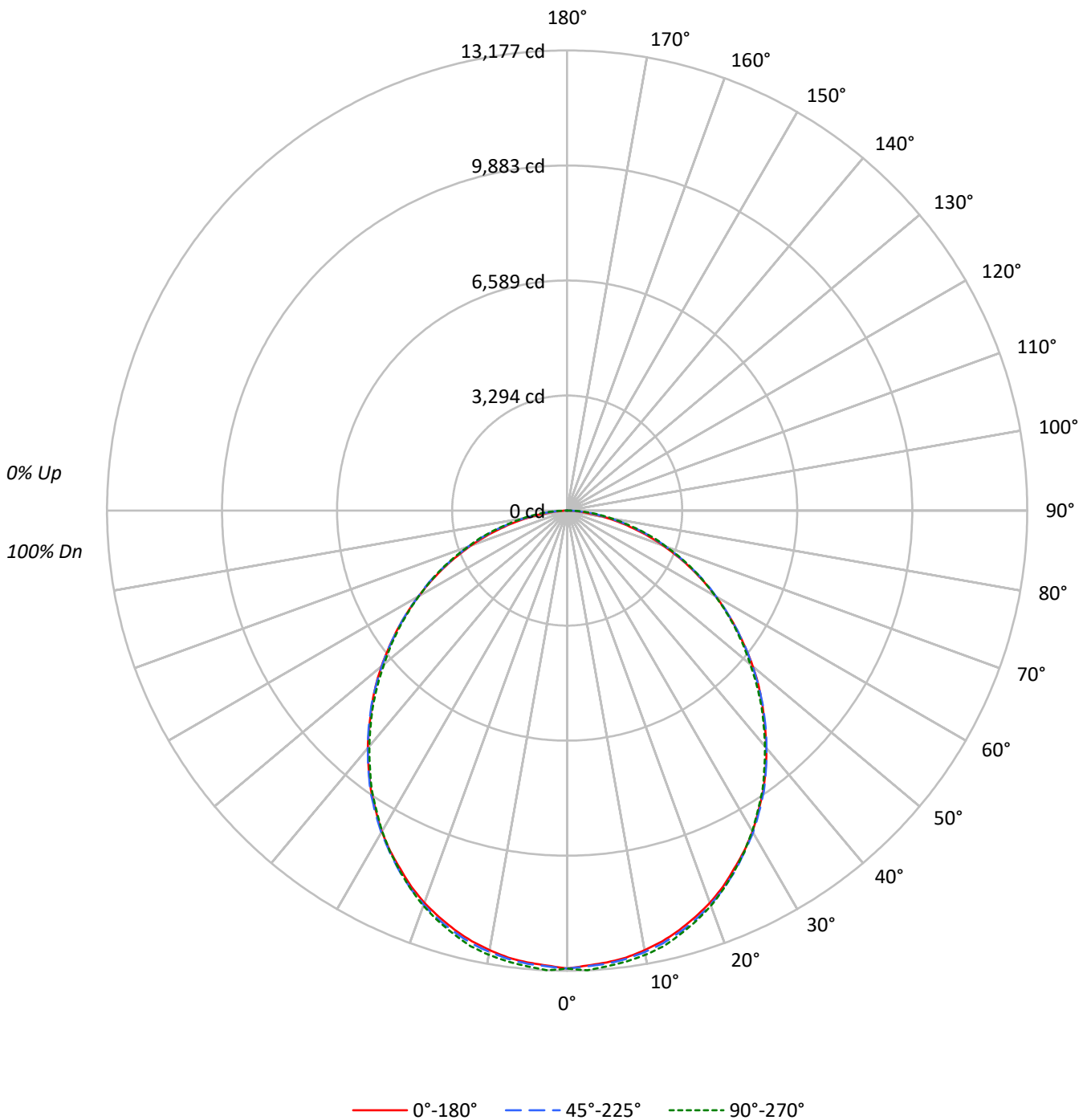
Lumens per Lamp: N/A
Luminaire Lumens: 34254.0 lumens
Efficiency: N/A
Efficacy: 162.1 lumens/watt
Spacing Criteria (0/90/45): 1.2 / 1.2 / 1.31
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

Input Watts (W): 211.3
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°	17644	17644	17644
5°	17543	17593	17693
10°	17464	17534	17648
15°	17310	17404	17489
20°	17114	17197	17247
25°	16797	16893	16868
30°	16488	16532	16465
35°	16079	16121	16018
40°	15596	15596	15476
45°	15051	15092	14938
50°	14534	14509	14328
55°	13905	13907	13782
60°	13231	13247	13195
65°	12470	12595	12627
70°	11518	11833	11846
75°	10179	10838	11007
80°	8348	9492	10028
85°	5794	7969	9011



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1240.2	3.6
10°-20°	3528.1	10.3
20°-30°	5243.0	15.3
30°-40°	6130.4	17.9
40°-50°	6112.2	17.8
50°-60°	5303.1	15.5
60°-70°	3917.0	11.4
70°-80°	2193.1	6.4
80°-90°	585.2	1.7
90°-100°	1.8	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°	10011.3	29.2
0°-40°	16141.7	47.1
0°-60°	27557.0	80.4
0°-90°	34252.2	100.0
90°-120°	1.8	0.0
90°-150°	1.8	0.0
90°-180°	2.0	0.0
0°-180°	34254.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	13113	13113	13113	13113	13113	
5°	12989	13071	13026	13083	13100	###
15°	12427	12514	12495	12555	12556	3505
25°	11315	11406	11379	11404	11362	5216
35°	9789	9875	9814	9813	9752	6115
45°	7910	7994	7931	7899	7850	6106
55°	5928	5968	5928	5918	5875	5300
65°	3917	3955	3956	3976	3966	3874
75°	1958	2016	2085	2100	2117	2085
85°	375	454	516	562	584	456
90°	0	8	10	22	21	15
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



TEST NUMBER: P#

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	13113.4	13113.4	13113.4	13113.4	13113.4
2.5°	13041.7	13119.2	13065.0	13116.7	13176.8
5°	12989.1	13070.9	13025.8	13083.4	13100.1
7.5°	12912.4	12991.6	12948.3	13005.8	13023.3
10°	12782.3	12868.2	12834.0	12899.1	12917.4
12.5°	12630.6	12711.4	12688.9	12764.8	12777.3
15°	12427.1	12513.8	12494.6	12554.7	12555.5
17.5°	12201.9	12283.6	12269.5	12316.2	12314.5
20°	11952.6	12040.1	12010.1	12061.0	12045.1
22.5°	11657.4	11750.8	11713.2	11755.8	11715.7
25°	11314.6	11405.5	11378.8	11403.9	11362.2
27.5°	10982.7	11066.1	11011.1	11041.1	10996.9
30°	10612.5	10683.4	10640.8	10650.8	10597.5
32.5°	10196.3	10280.6	10228.9	10227.2	10170.5
35°	9789.4	9875.3	9814.4	9812.7	9751.9
37.5°	9339.1	9419.1	9347.4	9351.6	9280.7
40°	8879.6	8948.8	8879.6	8876.2	8811.2
42.5°	8380.9	8472.6	8409.3	8416.8	8330.0
45°	7909.7	7994.0	7931.4	7898.9	7850.5
47.5°	7440.2	7476.9	7425.2	7416.9	7348.5
50°	6943.2	6970.7	6931.5	6921.5	6844.8
52.5°	6429.5	6477.1	6427.0	6413.7	6362.8
55°	5927.5	5968.4	5928.3	5918.3	5875.0
57.5°	5422.2	5475.5	5434.7	5424.7	5389.6
60°	4916.8	4932.6	4922.6	4937.6	4903.5
62.5°	4414.8	4451.5	4463.1	4459.0	4432.3
65°	3916.9	3955.3	3956.1	3976.1	3966.1
67.5°	3407.4	3457.4	3471.6	3492.5	3501.6
70°	2927.9	2966.3	3008.0	3020.5	3011.3
72.5°	2445.1	2506.8	2553.5	2564.3	2603.5
75°	1958.0	2016.4	2084.8	2099.8	2117.3
77.5°	1506.1	1583.6	1645.3	1665.3	1687.0
80°	1077.4	1163.3	1225.0	1252.5	1294.2
82.5°	707.2	794.7	857.3	884.8	935.7
85°	375.3	453.7	516.2	562.1	583.7
87.5°	110.9	177.6	213.5	226.8	246.0
90°	0.0	8.3	10.0	22.5	20.8
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)