

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-LD5-30SE-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-LD5-30SE-W-FLI-UNV-L750-ED3-U
Description: METALUX HIGH BAY LINEAR LED
Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

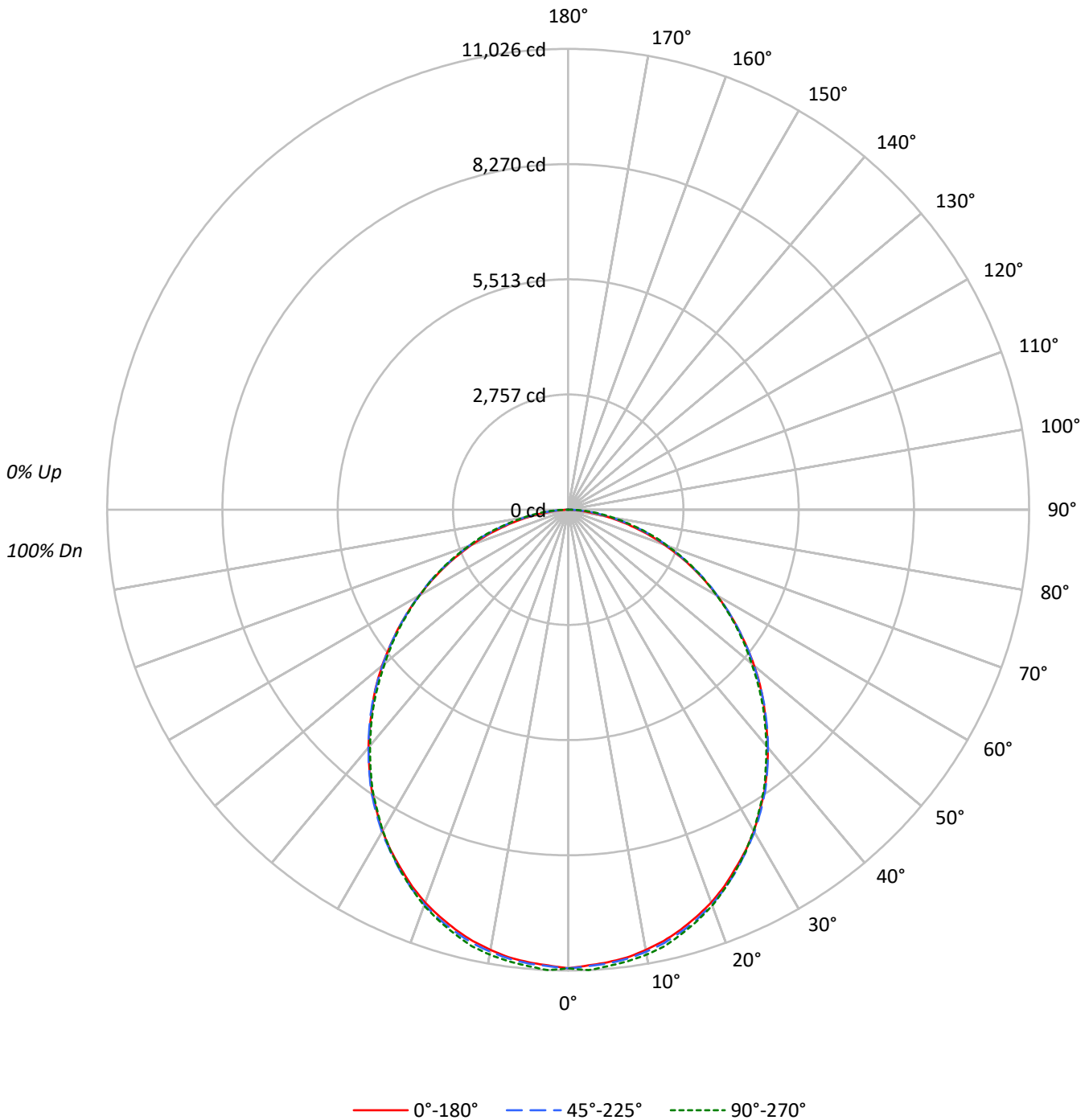
Lumens per Lamp: N/A
Luminaire Lumens: 28664.0 lumens
Efficiency: N/A
Efficacy: 148.5 lumens/watt
Spacing Criteria (0/90/45): 1.2 / 1.2 / 1.31
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

Input Watts (W): 193
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°	14765	14765	14765
5°	14681	14722	14806
10°	14614	14673	14768
15°	14485	14564	14635
20°	14321	14390	14432
25°	14056	14136	14115
30°	13797	13834	13778
35°	13455	13490	13404
40°	13051	13051	12951
45°	12595	12629	12500
50°	12162	12141	11989
55°	11636	11637	11532
60°	11072	11085	11042
65°	10435	10540	10566
70°	9639	9902	9913
75°	8518	9069	9211
80°	6986	7943	8391
85°	4847	6669	7541



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1037.8	3.6
10°-20°	2952.3	10.3
20°-30°	4387.4	15.3
30°-40°	5130.0	17.9
40°-50°	5114.7	17.8
50°-60°	4437.7	15.5
60°-70°	3277.8	11.4
70°-80°	1835.2	6.4
80°-90°	489.7	1.7
90°-100°	1.5	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°	8377.5	29.2
0°-40°	13507.5	47.1
0°-60°	23059.9	80.4
0°-90°	28662.5	100.0
90°-120°	1.5	0.0
90°-150°	1.5	0.0
90°-180°	1.0	0.0
0°-180°	28664.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	10973	10973	10973	10973	10973	
5°	10869	10938	10900	10948	10962	###
15°	10399	10472	10456	10506	10506	2933
25°	9468	9544	9522	9543	9508	4365
35°	8192	8264	8213	8211	8160	5117
45°	6619	6689	6637	6610	6569	5110
55°	4960	4994	4961	4952	4916	4435
65°	3278	3310	3310	3327	3319	3242
75°	1638	1687	1745	1757	1772	1745
85°	314	380	432	470	488	381
90°	0	7	8	19	17	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



TEST NUMBER: P#

CATALOG NUMBER: HBLED-LD5-30SE-W-FLI-UNV-L750-ED3-U

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	10973.4	10973.4	10973.4	10973.4	10973.4
2.5°	10913.4	10978.3	10932.9	10976.2	11026.4
5°	10869.4	10937.8	10900.1	10948.3	10962.2
7.5°	10805.2	10871.5	10835.2	10883.4	10898.0
10°	10696.4	10768.2	10739.6	10794.0	10809.4
12.5°	10569.3	10637.0	10618.2	10681.7	10692.2
15°	10399.1	10471.6	10455.6	10505.8	10506.5
17.5°	10210.7	10279.0	10267.2	10306.3	10304.9
20°	10002.0	10075.3	10050.2	10092.7	10079.5
22.5°	9755.0	9833.1	9801.7	9837.3	9803.8
25°	9468.2	9544.2	9521.9	9542.8	9507.9
27.5°	9190.4	9260.2	9214.2	9239.3	9202.3
30°	8880.6	8939.9	8904.3	8912.7	8868.0
32.5°	8532.4	8602.9	8559.6	8558.2	8510.7
35°	8191.8	8263.7	8212.8	8211.4	8160.4
37.5°	7815.0	7882.0	7822.0	7825.5	7766.2
40°	7430.5	7488.4	7430.5	7427.7	7373.3
42.5°	7013.2	7090.0	7036.9	7043.2	6970.6
45°	6618.9	6689.4	6637.1	6609.9	6569.4
47.5°	6226.0	6256.8	6213.5	6206.5	6149.3
50°	5810.1	5833.2	5800.4	5792.0	5727.8
52.5°	5380.3	5420.1	5378.2	5367.0	5324.4
55°	4960.2	4994.4	4960.9	4952.5	4916.2
57.5°	4537.3	4582.0	4547.8	4539.4	4510.1
60°	4114.4	4127.7	4119.3	4131.9	4103.2
62.5°	3694.3	3725.0	3734.8	3731.3	3709.0
65°	3277.7	3309.8	3310.5	3327.3	3318.9
67.5°	2851.3	2893.2	2905.1	2922.5	2930.2
70°	2450.1	2482.2	2517.1	2527.5	2519.9
72.5°	2046.0	2097.7	2136.8	2145.8	2178.6
75°	1638.5	1687.4	1744.6	1757.1	1771.8
77.5°	1260.3	1325.2	1376.8	1393.6	1411.7
80°	901.6	973.5	1025.1	1048.1	1083.0
82.5°	591.8	665.0	717.4	740.4	783.0
85°	314.0	379.6	432.0	470.3	488.5
87.5°	92.8	148.6	178.6	189.8	205.9
90°	0.0	7.0	8.4	18.8	17.4
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)