

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-LD5-60SE-W-FLI-UNV-L750-ED4-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-LD5-60SE-W-FLI-UNV-L750-ED4-U  
Description: METALUX HIGH BAY LINEAR LED  
Light Source: -  
Ballast/Driver: -

Luminaire Equipment: Sample No.    Condition    Description

**Summary**

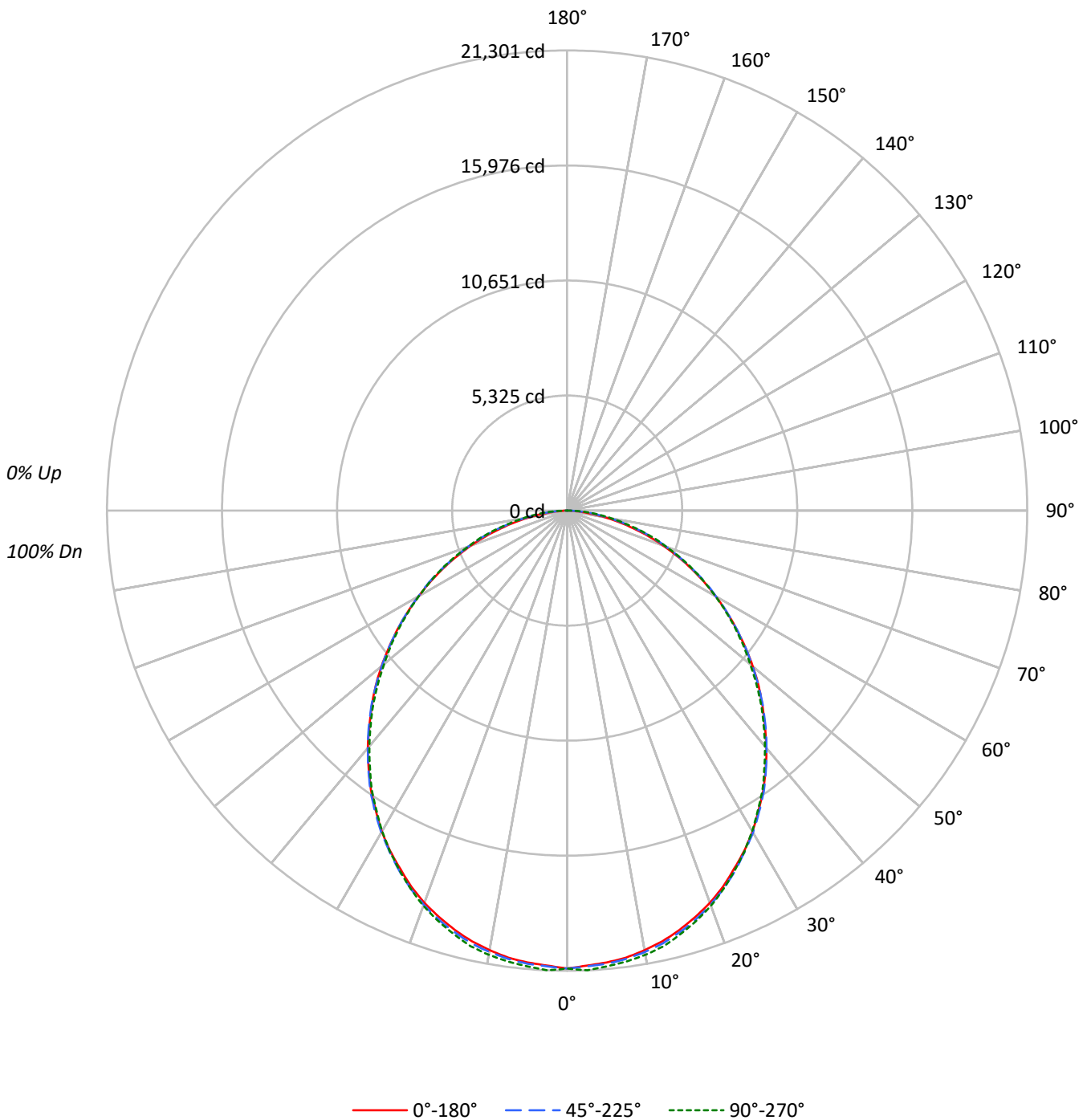
Lumens per Lamp: N/A  
Luminaire Lumens: 55373.0 lumens  
Efficiency: N/A  
Efficacy: 143.5 lumens/watt  
Spacing Criteria (0/90/45): 1.2 / 1.2 / 1.31  
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')  
CIE Type: Direct

Input Watts (W): 386  
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°	28522	28522	28522
5°	28360	28440	28602
10°	28231	28345	28529
15°	27983	28135	28272
20°	27666	27799	27880
25°	27154	27308	27268
30°	26653	26725	26616
35°	25993	26060	25893
40°	25212	25212	25018
45°	24330	24397	24148
50°	23494	23455	23161
55°	22478	22481	22278
60°	21388	21414	21330
65°	20159	20360	20412
70°	18620	19129	19150
75°	16455	17520	17793
80°	13495	15344	16211
85°	9365	12883	14567



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	2004.8	3.6
10°-20°	5703.3	10.3
20°-30°	8475.5	15.3
30°-40°	9910.1	17.9
40°-50°	9880.6	17.8
50°-60°	8572.7	15.5
60°-70°	6332.0	11.4
70°-80°	3545.2	6.4
80°-90°	945.9	1.7
90°-100°	2.8	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°	16183.6	29.2
0°-40°	26093.7	47.1
0°-60°	44547.1	80.4
0°-90°	55370.2	100.0
90°-120°	2.8	0.0
90°-150°	2.8	0.0
90°-180°	3.0	0.0
0°-180°	55373.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	21198	21198	21198	21198	21198	
5°	20998	21130	21057	21150	21177	###
15°	20089	20229	20198	20295	20296	5666
25°	18291	18438	18394	18435	18367	8433
35°	15825	15964	15865	15863	15764	9885
45°	12786	12923	12822	12769	12691	9871
55°	9582	9648	9583	9567	9497	8568
65°	6332	6394	6395	6428	6411	6262
75°	3165	3260	3370	3394	3423	3371
85°	607	733	834	909	944	737
90°	0	14	16	36	34	25
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-LD5-60SE-W-FLI-UNV-L750-ED4-U

**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	21198.3	21198.3	21198.3	21198.3	21198.3
2.5°	21082.4	21207.8	21120.2	21203.7	21300.8
5°	20997.5	21129.6	21056.8	21149.8	21176.8
7.5°	20873.5	21001.5	20931.4	21024.4	21052.8
10°	20663.2	20802.0	20746.7	20851.9	20881.6
12.5°	20417.8	20548.6	20512.2	20634.9	20655.1
15°	20088.9	20229.1	20198.1	20295.1	20296.5
17.5°	19724.9	19857.0	19834.1	19909.6	19906.9
20°	19321.8	19463.4	19414.9	19497.1	19471.5
22.5°	18844.6	18995.6	18934.9	19003.7	18939.0
25°	18290.6	18437.5	18394.4	18434.8	18367.4
27.5°	17754.0	17888.8	17799.9	17848.4	17777.0
30°	17155.5	17270.1	17201.3	17217.5	17131.2
32.5°	16482.8	16619.0	16535.4	16532.7	16441.0
35°	15825.0	15963.8	15865.4	15862.7	15764.3
37.5°	15097.0	15226.4	15110.5	15117.2	15002.6
40°	14354.2	14466.1	14354.2	14348.8	14243.7
42.5°	13548.1	13696.4	13593.9	13606.0	13465.8
45°	12786.4	12922.6	12821.5	12768.9	12690.7
47.5°	12027.5	12086.8	12003.2	11989.7	11879.2
50°	11224.0	11268.5	11205.1	11189.0	11064.9
52.5°	10393.6	10470.4	10389.5	10368.0	10285.7
55°	9582.1	9648.1	9583.4	9567.2	9497.1
57.5°	8765.1	8851.4	8785.4	8769.2	8712.6
60°	7948.2	7973.8	7957.6	7981.9	7926.6
62.5°	7136.7	7196.0	7214.9	7208.1	7165.0
65°	6331.9	6393.9	6395.2	6427.6	6411.4
67.5°	5508.2	5589.1	5612.0	5645.7	5660.5
70°	4733.1	4795.1	4862.5	4882.7	4867.9
72.5°	3952.5	4052.3	4127.8	4145.3	4208.7
75°	3165.3	3259.6	3370.2	3394.4	3422.7
77.5°	2434.6	2560.0	2659.7	2692.1	2727.1
80°	1741.7	1880.6	1980.3	2024.8	2092.2
82.5°	1143.2	1284.7	1385.8	1430.3	1512.5
85°	606.6	733.3	834.5	908.6	943.6
87.5°	179.3	287.1	345.1	366.7	397.7
90°	0.0	13.5	16.2	36.4	33.7
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)