

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: **8SNLED-LD5-170HL-SLC-UNV-L940-CD1-U**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P#
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P27404)
Test Lab: INNOVATION CENTER-P2
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 8SNLED-LD5-170HL-SLC-UNV-L940-CD1-U
Description: 8FT LINEAR SNLED LED FIXTURE
CLEAR SQUARE LENS
Light Source: -
Ballast/Driver: -

Summary

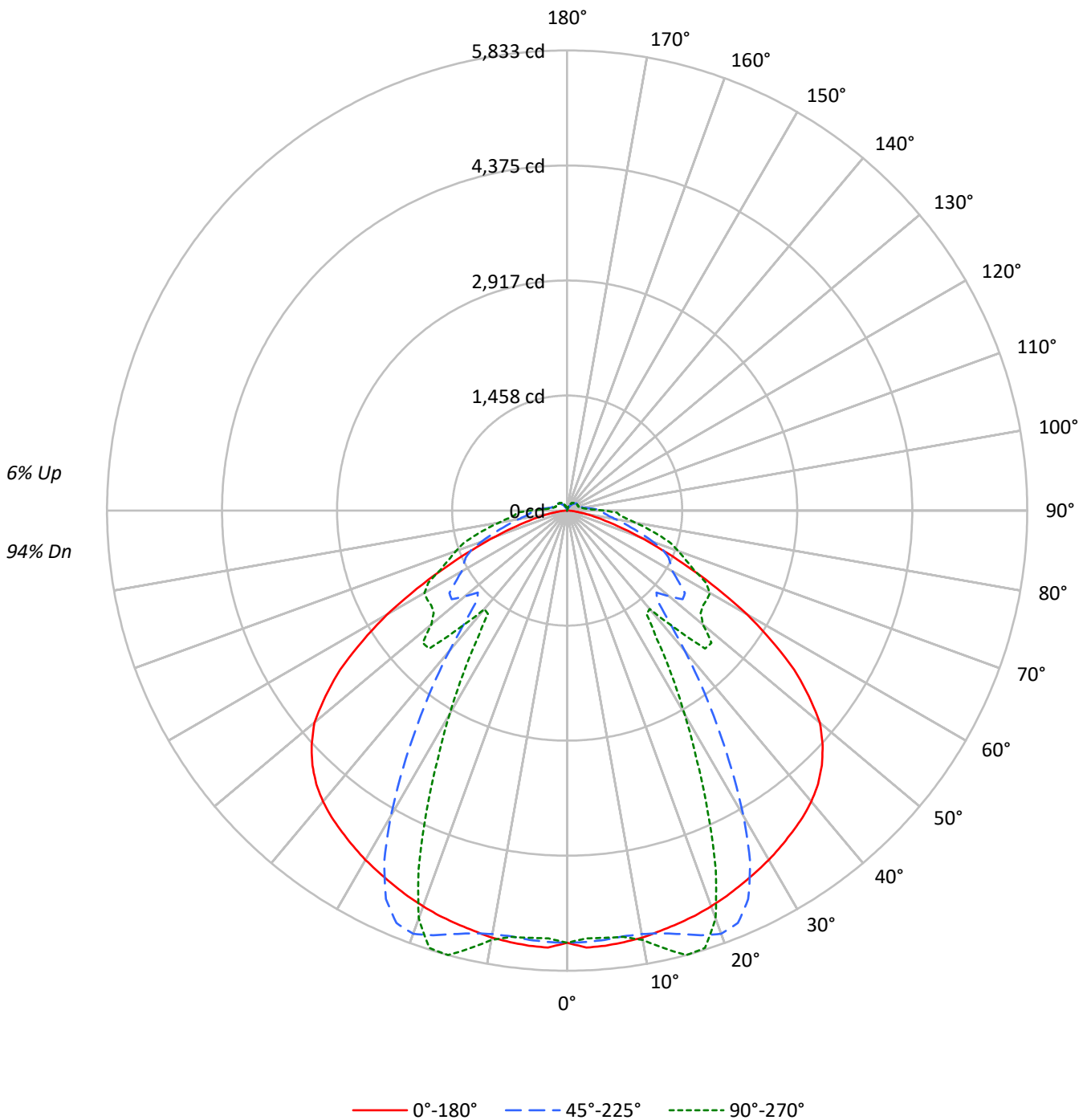
Lumens per Lamp: N/A
Luminaire Lumens: 14068.0 lumens
Efficiency: N/A
Efficacy: 113.5 lumens/watt
Spacing Criteria (0/90/45): 1.4 / 1 / 1.08
Luminous Opening: Rectangular w/ Sides (W: 0.33' x L: 8' x H: 0.12')
CIE Type: Direct

Input Watts (W): 124
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	118	118	118	118	114	114	114	114	108	108	108	102	102	102	97	97	97	94
1	107	102	98	94	104	99	95	92	94	91	88	89	87	84	85	83	81	78
2	98	90	83	77	95	87	81	76	83	78	73	79	74	71	75	71	68	66
3	89	79	71	65	87	77	70	64	73	67	62	70	65	60	67	62	59	56
4	82	71	62	56	80	69	61	55	66	59	53	63	57	52	60	55	51	49
5	76	64	55	48	74	62	54	48	59	52	47	57	51	46	54	49	45	43
6	70	58	49	43	68	56	48	42	54	47	41	52	45	41	50	44	40	38
7	66	52	44	38	64	51	43	38	49	42	37	47	41	36	46	40	36	34
8	61	48	40	34	59	47	39	34	45	38	33	44	37	33	42	37	32	30
9	57	44	36	31	56	44	36	31	42	35	30	41	34	30	39	34	29	28
10	54	41	33	28	52	40	33	28	39	32	28	38	32	27	37	31	27	25

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	22128	22128	22128
5°	22428	21630	21344
10°	22487	21321	21270
15°	22581	21640	22169
20°	22824	22304	20809
25°	23145	21455	16023
30°	23641	17986	11397
35°	24272	13635	7717
40°	25067	9922	6534
45°	25697	7206	10274
50°	25807	7989	9750
55°	24205	9207	9628
60°	20715	8439	10234
65°	15676	8527	9361
70°	11094	7780	8713
75°	7367	6538	7819
80°	4820	5623	6509
85°	2765	5376	5842



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	521.0	3.7
10°-20°	1573.4	11.2
20°-30°	2285.7	16.2
30°-40°	2183.9	15.5
40°-50°	1997.6	14.2
50°-60°	1844.5	13.1
60°-70°	1465.1	10.4
70°-80°	904.3	6.4
80°-90°	492.4	3.5
90°-100°	248.9	1.8
100°-110°	156.4	1.1
110°-120°	132.5	0.9
120°-130°	108.2	0.8
130°-140°	77.6	0.6
140°-150°	47.9	0.3
150°-160°	22.7	0.2
160°-170°	5.9	0.0
170°-180°	0.0	0.0
0°-30°	4380.1	31.1
0°-40°	6564.0	46.7
0°-60°	10406.1	74.0
0°-90°	13267.9	94.3
90°-120°	537.8	3.8
90°-150°	771.4	5.5
90°-180°	800.0	5.7
0°-180°	14068.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	5476	5476	5476	5476	5476	
5°	5537	5452	5462	5433	5435	527
15°	5421	5348	5556	5763	5833	1534
25°	5229	5331	5433	4599	4223	2417
35°	4975	4895	3300	2272	1976	3119
45°	4567	3186	1610	2053	2473	3510
55°	3513	1634	1823	1961	2100	3094
65°	1695	1059	1421	1726	1767	1714
75°	499	565	851	1127	1202	566
85°	70	240	482	657	667	90
90°	2	179	432	512	473	4
95°	0	167	298	264	250	0
105°	0	150	184	167	165	0
115°	0	124	177	158	150	1
125°	2	99	158	153	146	2
135°	2	70	126	138	133	2
145°	2	44	87	112	119	2
155°	5	27	53	70	85	2
165°	5	14	27	34	46	1
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°	5476.5	5476.5	5476.5	5476.5	5476.5
2.5°	5544.4	5464.4	5474.1	5457.1	5428.1
5°	5537.1	5452.3	5462.0	5432.9	5435.3
7.5°	5517.8	5430.5	5442.6	5437.7	5449.9
10°	5495.9	5403.8	5449.9	5491.1	5527.4
12.5°	5457.1	5374.7	5486.2	5607.5	5682.6
15°	5420.8	5348.0	5556.5	5762.6	5832.9
17.5°	5384.4	5338.4	5643.8	5823.2	5813.5
20°	5338.4	5333.5	5709.3	5648.7	5500.8
22.5°	5287.4	5335.9	5658.4	5214.7	4923.8
25°	5229.3	5331.1	5432.9	4598.9	4223.2
27.5°	5171.1	5309.3	5023.2	3925.0	3554.1
30°	5112.9	5251.1	4470.4	3309.2	2972.2
32.5°	5045.0	5125.0	3869.2	2763.7	2453.4
35°	4974.7	4894.7	3299.5	2271.6	1975.8
37.5°	4902.0	4562.6	2788.0	1840.1	1651.0
40°	4814.7	4145.6	2317.6	1578.2	1629.1
42.5°	4705.6	3675.3	1903.1	1655.8	2009.8
45°	4567.4	3185.6	1609.7	2053.4	2472.8
47.5°	4392.9	2715.2	1537.0	2351.6	2482.5
50°	4182.0	2283.7	1689.8	2254.6	2244.9
52.5°	3861.9	1924.9	1844.9	2055.8	2133.4
55°	3512.8	1634.0	1823.1	1961.3	2099.5
57.5°	3071.6	1437.6	1672.8	1941.9	2101.9
60°	2632.8	1306.7	1544.3	1939.5	2089.8
62.5°	2147.9	1187.9	1478.8	1893.4	1983.1
65°	1694.6	1059.4	1420.7	1726.1	1767.3
67.5°	1299.4	928.5	1318.8	1539.4	1621.9
70°	979.4	800.0	1158.8	1396.4	1498.2
72.5°	705.5	678.8	994.0	1270.3	1377.0
75°	499.4	564.9	850.9	1127.3	1202.5
77.5°	344.3	460.6	729.7	969.7	1030.3
80°	225.5	368.5	620.6	834.0	875.2
82.5°	135.8	295.8	538.2	729.7	751.5
85°	70.3	240.0	482.4	657.0	666.7
87.5°	21.8	201.2	450.9	623.1	635.2
90°	2.4	179.4	431.5	511.5	472.7
92.5°	0.0	169.7	373.3	349.1	312.7
95°	0.0	167.3	298.2	264.3	249.7
97.5°	0.0	162.4	244.9	220.6	213.3
100°	0.0	157.6	210.9	193.9	191.5
102.5°	0.0	155.2	191.5	177.0	174.6
105°	0.0	150.3	184.2	167.3	164.9
107.5°	0.0	143.0	179.4	162.4	157.6
110°	0.0	135.8	179.4	160.0	152.7



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	0.0	128.5	179.4	157.6	150.3
115°	0.0	123.6	177.0	157.6	150.3
117.5°	2.4	118.8	174.6	157.6	150.3
120°	0.0	113.9	169.7	157.6	147.9
122.5°	2.4	106.7	164.9	155.2	147.9
125°	2.4	99.4	157.6	152.7	145.5
127.5°	2.4	92.1	150.3	147.9	140.6
130°	2.4	84.9	143.0	145.5	138.2
132.5°	2.4	77.6	133.3	140.6	135.8
135°	2.4	70.3	126.1	138.2	133.3
137.5°	2.4	63.0	116.4	130.9	130.9
140°	2.4	55.8	106.7	126.1	128.5
142.5°	2.4	50.9	97.0	121.2	123.6
145°	2.4	43.6	87.3	111.5	118.8
147.5°	2.4	38.8	77.6	101.8	111.5
150°	2.4	33.9	67.9	92.1	101.8
152.5°	2.4	29.1	60.6	80.0	94.5
155°	4.8	26.7	53.3	70.3	84.9
157.5°	4.8	21.8	43.6	60.6	72.7
160°	4.8	19.4	38.8	50.9	65.5
162.5°	4.8	17.0	31.5	43.6	55.8
165°	4.8	14.5	26.7	33.9	46.1
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)