

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: P284568

Luminaire Tested: **8SNLED-LD5-170HL-SLW-UNV-L840-CD1-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: P284568
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P#)
Test Lab: INNOVATION CENTER-P2
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 8SNLED-LD5-170HL-SLW-UNV-L840-CD1-U
Description: 8FT LINEAR SNLED LED FIXTURE
SQUARE FROSTED LENS
Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 13956.0 lumens
Efficiency: N/A
Efficacy: 112.5 lumens/watt
Spacing Criteria (0/90/45): 1.26 / 1.56 / 1.59
Luminous Opening: Rectangular w/ Sides (W: 0.33' x L: 8' x H: 0.12')
CIE Type: Semi-Direct

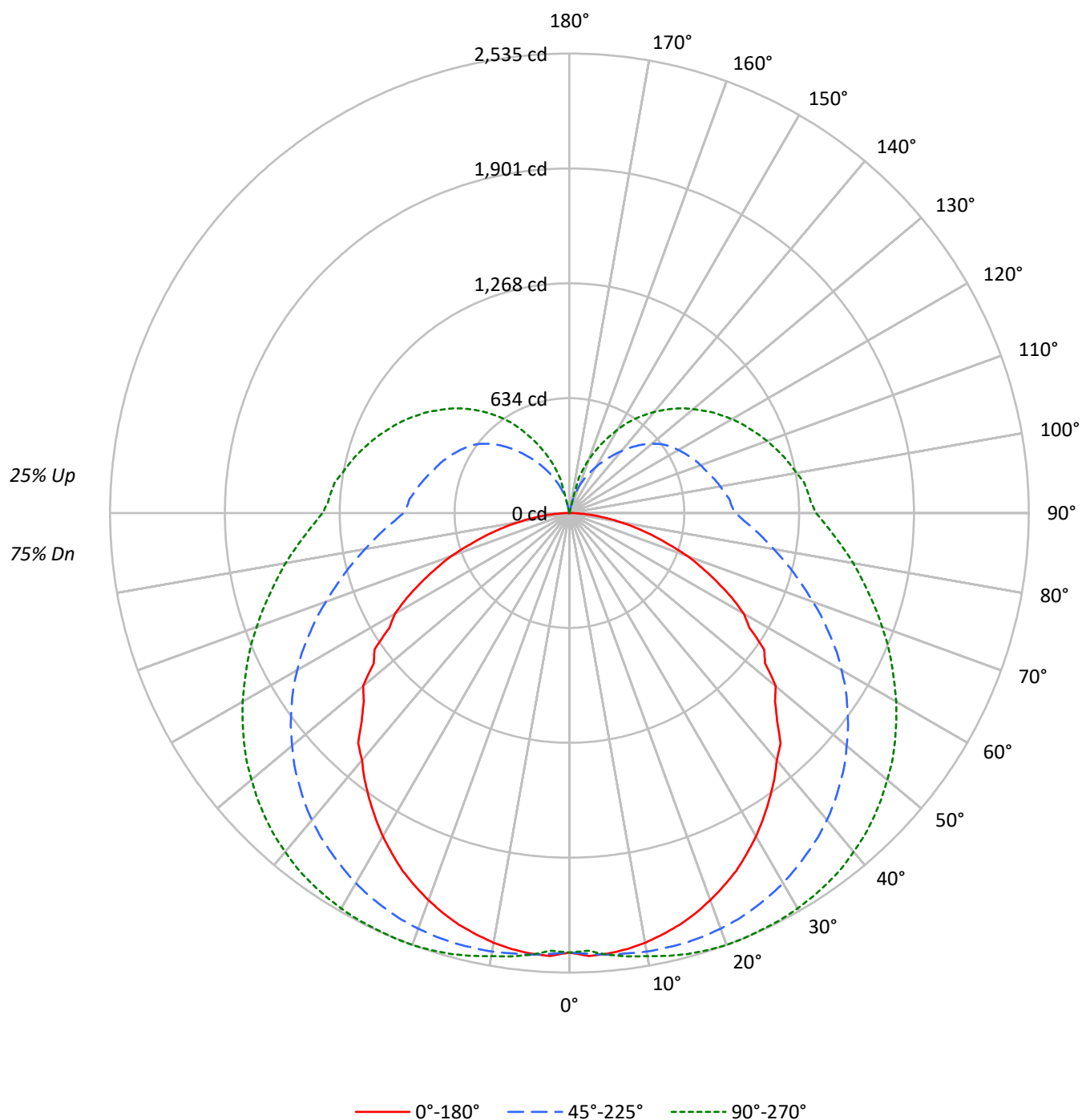
Input Watts (W): 124
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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					0
RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10	50	30	10
RCR																				
0	113	113	113	113	107	107	107	107	97	97	97	88	88	88	79	79	79	75		
1	100	94	89	84	95	89	84	80	80	76	73	72	69	66	64	62	60	56		
2	90	80	72	66	85	76	69	63	68	63	58	61	57	53	55	51	48	44		
3	81	69	60	53	76	66	58	51	59	53	47	53	48	43	47	43	39	36		
4	74	61	51	44	69	58	49	43	52	45	39	47	41	36	42	37	33	30		
5	67	54	44	37	63	51	43	36	46	39	33	42	35	31	37	32	28	25		
6	62	48	39	32	58	46	37	31	41	34	29	37	31	27	34	28	24	22		
7	57	43	34	28	54	41	33	27	37	30	25	34	28	23	30	25	21	19		
8	53	39	31	25	50	37	29	24	34	27	22	31	25	21	28	23	19	17		
9	49	36	27	22	47	34	26	21	31	24	20	28	23	18	26	21	17	15		
10	46	33	25	20	44	31	24	19	29	22	18	26	21	16	24	19	15	13		

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	9794	9794	9794
5°	9882	9687	9605
10°	9849	9611	9552
15°	9795	9567	9573
20°	9717	9532	9591
25°	9639	9506	9606
30°	9522	9485	9658
35°	9391	9461	9723
40°	9270	9464	9786
45°	9117	9452	9864
50°	9169	9443	9943
55°	9037	9457	10061
60°	8745	9478	10197
65°	8309	9508	10388
70°	7839	9601	10679
75°	6971	9852	11111
80°	6034	10368	11827
85°	4767	11400	12872



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	232.9	1.7
10°-20°	690.4	4.9
20°-30°	1097.3	7.9
30°-40°	1408.3	10.1
40°-50°	1590.3	11.4
50°-60°	1622.7	11.6
60°-70°	1503.3	10.8
70°-80°	1272.8	9.1
80°-90°	1015.9	7.3
90°-100°	862.7	6.2
100°-110°	768.6	5.5
110°-120°	654.6	4.7
120°-130°	519.9	3.7
130°-140°	368.9	2.6
140°-150°	220.2	1.6
150°-160°	102.7	0.7
160°-170°	24.4	0.2
170°-180°	0.0	0.0
0°-30°	2020.6	14.5
0°-40°	3428.9	24.6
0°-60°	6641.9	47.6
0°-90°	10433.9	74.8
90°-120°	2285.9	16.4
90°-150°	3395.0	24.3
90°-180°	3522.0	25.2
0°-180°	13956.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2424	2424	2424	2424	2424	
5°	2440	2420	2446	2446	2446	232
15°	2351	2371	2457	2502	2519	663
25°	2178	2250	2407	2492	2532	1003
35°	1925	2066	2289	2430	2489	1205
45°	1620	1840	2112	2296	2374	1258
55°	1312	1532	1873	2102	2194	1152
65°	898	1197	1584	1856	1961	892
75°	473	836	1282	1597	1709	503
85°	121	538	1023	1354	1469	132
90°	6	440	915	1246	1361	10
95°	0	413	886	1210	1321	0
105°	0	380	807	1112	1220	0
115°	0	354	734	1000	1098	0
125°	0	305	652	882	967	0
135°	0	226	525	744	813	1
145°	0	148	367	558	636	1
155°	4	92	226	341	423	2
165°	4	50	102	141	200	1
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°	2423.9	2423.9	2423.9	2423.9	2423.9
2.5°	2446.0	2420.4	2433.6	2430.1	2416.8
5°	2439.8	2420.4	2446.0	2446.0	2446.0
7.5°	2426.5	2413.3	2449.6	2462.8	2466.4
10°	2407.1	2407.1	2456.6	2476.1	2482.3
12.5°	2380.5	2390.3	2456.6	2485.8	2501.8
15°	2351.3	2370.8	2456.6	2501.8	2518.6
17.5°	2315.0	2347.8	2449.6	2505.3	2528.3
20°	2272.6	2322.1	2439.8	2505.3	2535.4
22.5°	2226.5	2289.4	2426.5	2499.1	2535.4
25°	2177.9	2249.6	2407.1	2492.0	2531.9
27.5°	2118.6	2210.6	2384.1	2482.3	2528.3
30°	2059.3	2164.6	2357.5	2469.0	2518.6
32.5°	1993.8	2115.0	2324.8	2449.6	2505.3
35°	1924.8	2066.4	2289.4	2430.1	2489.4
37.5°	1855.8	2007.1	2253.1	2403.5	2469.0
40°	1780.5	1947.8	2210.6	2370.8	2439.8
42.5°	1724.8	1885.8	2164.6	2338.1	2410.6
45°	1620.4	1839.8	2111.5	2295.6	2374.3
47.5°	1538.1	1751.3	2059.3	2253.1	2334.5
50°	1485.8	1678.8	1997.3	2203.5	2289.4
52.5°	1361.1	1630.1	1938.1	2154.9	2246.0
55°	1311.5	1531.9	1872.6	2101.8	2193.8
57.5°	1177.0	1462.8	1807.1	2043.4	2138.1
60°	1111.5	1367.3	1734.5	1984.1	2082.3
62.5°	1009.7	1285.8	1662.8	1918.6	2020.4
65°	898.2	1197.3	1584.1	1855.8	1961.1
67.5°	793.8	1108.8	1508.8	1790.3	1901.8
70°	692.0	1016.8	1430.1	1724.8	1836.3
72.5°	573.5	924.8	1354.0	1662.8	1774.3
75°	472.6	836.3	1282.3	1597.3	1708.8
77.5°	373.5	751.3	1213.3	1538.1	1649.6
80°	282.3	669.0	1144.2	1476.1	1590.3
82.5°	196.5	600.0	1082.3	1416.8	1528.3
85°	121.2	538.1	1023.0	1354.0	1469.0
87.5°	55.8	482.3	963.7	1295.6	1413.3
90°	6.2	439.8	915.0	1246.0	1361.1
92.5°	3.5	426.5	895.6	1223.0	1334.5
95°	0.0	413.3	885.8	1209.7	1321.2
97.5°	0.0	400.0	862.8	1190.3	1305.3
100°	0.0	393.8	846.0	1161.1	1272.6
102.5°	0.0	384.1	826.5	1134.5	1246.0
105°	0.0	380.5	807.1	1111.5	1220.4
107.5°	0.0	373.5	786.7	1082.3	1190.3
110°	0.0	367.3	770.8	1055.8	1161.1



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	0.0	361.1	754.0	1030.1	1131.0
115°	0.0	354.0	734.5	1000.0	1098.2
117.5°	0.0	344.2	715.0	970.8	1069.0
120°	0.0	331.0	695.6	944.2	1036.3
122.5°	0.0	317.7	675.2	911.5	1000.0
125°	0.0	305.3	652.2	882.3	967.3
127.5°	0.0	285.0	626.5	849.6	928.3
130°	0.0	265.5	593.8	816.8	892.0
132.5°	3.5	246.0	561.1	780.5	855.8
135°	0.0	226.5	524.8	744.2	813.3
137.5°	0.0	209.7	485.0	705.3	770.8
140°	0.0	190.3	446.0	659.3	728.3
142.5°	0.0	167.3	407.1	609.7	682.3
145°	0.0	147.8	367.3	557.5	636.3
147.5°	3.5	131.0	331.0	501.8	586.7
150°	3.5	117.7	295.6	446.0	531.0
152.5°	3.5	105.3	259.3	393.8	475.2
155°	3.5	92.0	226.5	340.7	423.0
157.5°	3.5	78.8	190.3	288.5	367.3
160°	3.5	69.0	157.5	242.5	315.0
162.5°	3.5	59.3	128.3	190.3	259.3
165°	3.5	49.6	101.8	140.7	200.0
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)