

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-L930-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-L930-CD1-U
Description: 8FT LINEAR SNLED LED FIXTURE
CLEAR SQUARE LENS
Light Source: -
Ballast/Driver: -

Summary

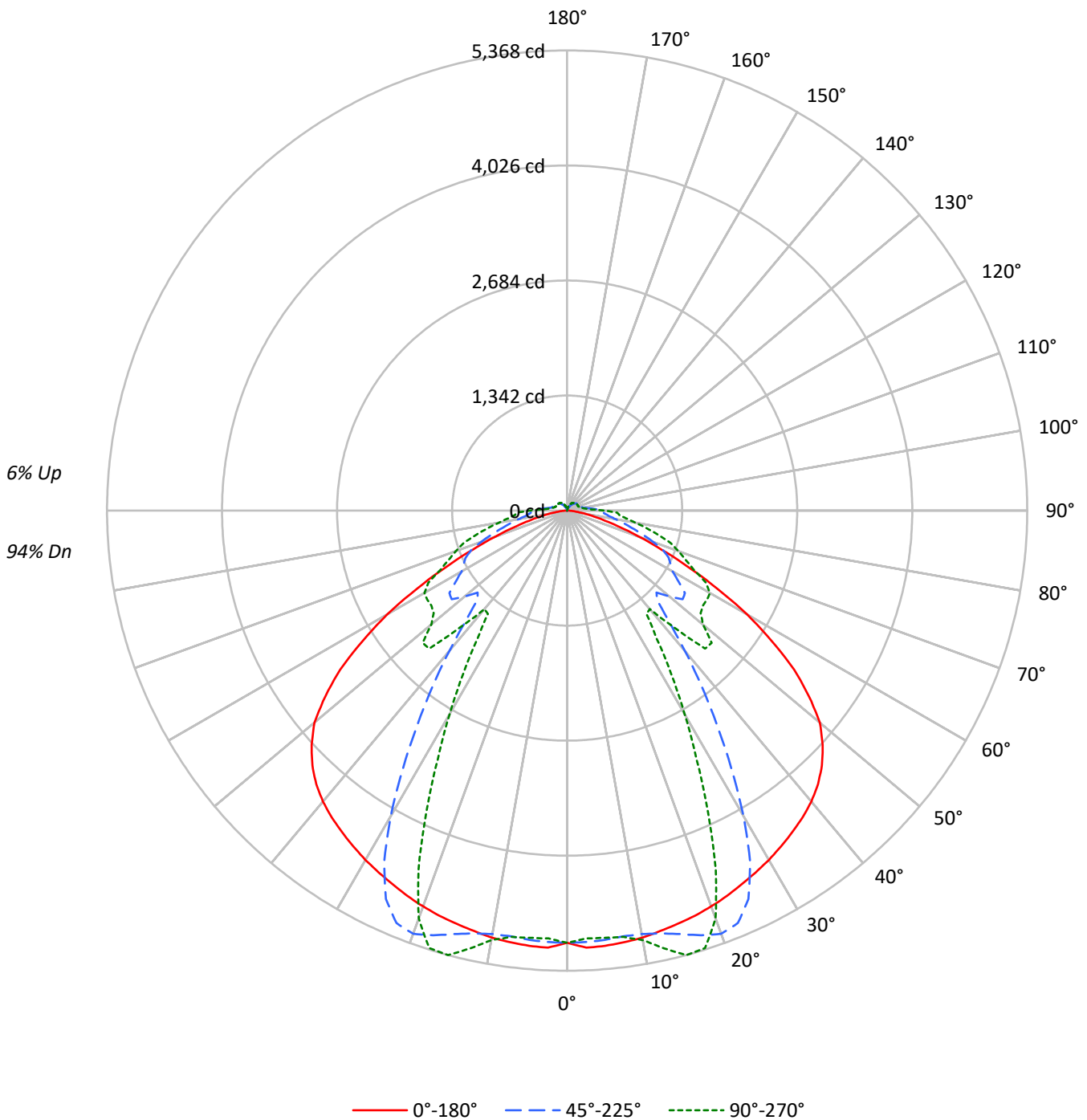
Lumens per Lamp: N/A
Luminaire Lumens: 12948.0 lumens
Efficiency: N/A
Efficacy: 104.4 lumens/watt
Spacing Criteria (0/90/45): 1.4 / 1 / 1.08
Luminous Opening: Rectangular w/ Sides (W: 0.33' x L: 8' x H: 0.12')
CIE Type: Direct

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°	20366	20366	20366
5°	20642	19908	19645
10°	20697	19623	19577
15°	20783	19917	20404
20°	21007	20528	19152
25°	21302	19747	14747
30°	21759	16554	10490
35°	22340	12550	7103
40°	23071	9132	6014
45°	23652	6632	9455
50°	23752	7353	8974
55°	22279	8474	8861
60°	19066	7766	9419
65°	14428	7848	8616
70°	10211	7161	8020
75°	6781	6018	7196
80°	4435	5176	5990
85°	2545	4948	5377



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	479.5	3.7
10°-20°	1448.2	11.2
20°-30°	2103.7	16.2
30°-40°	2010.0	15.5
40°-50°	1838.6	14.2
50°-60°	1697.6	13.1
60°-70°	1348.5	10.4
70°-80°	832.3	6.4
80°-90°	453.2	3.5
90°-100°	229.1	1.8
100°-110°	143.9	1.1
110°-120°	121.9	0.9
120°-130°	99.6	0.8
130°-140°	71.4	0.6
140°-150°	44.0	0.3
150°-160°	20.9	0.2
160°-170°	5.4	0.0
170°-180°	0.0	0.0
0°-30°	4031.4	31.1
0°-40°	6041.4	46.7
0°-60°	9577.7	74.0
0°-90°	12211.6	94.3
90°-120°	494.9	3.8
90°-150°	710.0	5.5
90°-180°	736.0	5.7
0°-180°	12948.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	5040	5040	5040	5040	5040	
5°	5096	5018	5027	5000	5003	485
15°	4989	4922	5114	5304	5368	1412
25°	4813	4907	5000	4233	3887	2224
35°	4579	4505	3037	2091	1818	2871
45°	4204	2932	1482	1890	2276	3231
55°	3233	1504	1678	1805	1932	2848
65°	1560	975	1308	1589	1627	1577
75°	460	520	783	1038	1107	521
85°	65	221	444	605	614	82
90°	2	165	397	471	435	3
95°	0	154	274	243	230	0
105°	0	138	170	154	152	0
115°	0	114	163	145	138	1
125°	2	92	145	141	134	2
135°	2	65	116	127	123	2
145°	2	40	80	103	109	1
155°	4	24	49	65	78	2
165°	4	13	24	31	42	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°	5040.5	5040.5	5040.5	5040.5	5040.5
2.5°	5103.0	5029.4	5038.3	5022.7	4995.9
5°	5096.3	5018.2	5027.1	5000.4	5002.6
7.5°	5078.5	4998.1	5009.3	5004.8	5016.0
10°	5058.4	4973.6	5016.0	5053.9	5087.4
12.5°	5022.7	4946.8	5049.5	5161.0	5230.2
15°	4989.2	4922.3	5114.2	5303.8	5368.5
17.5°	4955.7	4913.3	5194.5	5359.6	5350.7
20°	4913.3	4908.9	5254.7	5199.0	5062.8
22.5°	4866.5	4911.1	5207.9	4799.6	4531.8
25°	4812.9	4906.7	5000.4	4232.8	3886.9
27.5°	4759.4	4886.6	4623.3	3612.5	3271.1
30°	4705.8	4833.0	4114.5	3045.7	2735.6
32.5°	4643.4	4717.0	3561.2	2543.7	2258.1
35°	4578.7	4505.0	3036.8	2090.7	1818.5
37.5°	4511.7	4199.3	2566.0	1693.6	1519.5
40°	4431.4	3815.5	2133.1	1452.6	1499.4
42.5°	4331.0	3382.7	1751.6	1524.0	1849.8
45°	4203.8	2931.9	1481.6	1889.9	2275.9
47.5°	4043.1	2499.1	1414.7	2164.4	2284.9
50°	3849.0	2101.9	1555.2	2075.1	2066.2
52.5°	3554.5	1771.7	1698.0	1892.2	1963.6
55°	3233.2	1503.9	1677.9	1805.1	1932.3
57.5°	2827.1	1323.2	1539.6	1787.3	1934.5
60°	2423.2	1202.7	1421.3	1785.0	1923.4
62.5°	1976.9	1093.3	1361.1	1742.7	1825.2
65°	1559.7	975.1	1307.5	1588.7	1626.6
67.5°	1196.0	854.6	1213.8	1416.9	1492.7
70°	901.4	736.3	1066.6	1285.2	1379.0
72.5°	649.3	624.8	914.8	1169.2	1267.4
75°	459.7	519.9	783.2	1037.6	1106.7
77.5°	316.8	423.9	671.6	892.5	948.3
80°	207.5	339.2	571.2	767.6	805.5
82.5°	125.0	272.2	495.4	671.6	691.7
85°	64.7	220.9	444.0	604.7	613.6
87.5°	20.1	185.2	415.0	573.4	584.6
90°	2.2	165.1	397.2	470.8	435.1
92.5°	0.0	156.2	343.6	321.3	287.8
95°	0.0	154.0	274.5	243.2	229.8
97.5°	0.0	149.5	225.4	203.0	196.4
100°	0.0	145.0	194.1	178.5	176.3
102.5°	0.0	142.8	176.3	162.9	160.7
105°	0.0	138.3	169.6	154.0	151.7
107.5°	0.0	131.6	165.1	149.5	145.0
110°	0.0	125.0	165.1	147.3	140.6



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	0.0	118.3	165.1	145.0	138.3
115°	0.0	113.8	162.9	145.0	138.3
117.5°	2.2	109.3	160.7	145.0	138.3
120°	0.0	104.9	156.2	145.0	136.1
122.5°	2.2	98.2	151.7	142.8	136.1
125°	2.2	91.5	145.0	140.6	133.9
127.5°	2.2	84.8	138.3	136.1	129.4
130°	2.2	78.1	131.6	133.9	127.2
132.5°	2.2	71.4	122.7	129.4	125.0
135°	2.2	64.7	116.0	127.2	122.7
137.5°	2.2	58.0	107.1	120.5	120.5
140°	2.2	51.3	98.2	116.0	118.3
142.5°	2.2	46.9	89.3	111.6	113.8
145°	2.2	40.2	80.3	102.6	109.3
147.5°	2.2	35.7	71.4	93.7	102.6
150°	2.2	31.2	62.5	84.8	93.7
152.5°	2.2	26.8	55.8	73.6	87.0
155°	4.5	24.5	49.1	64.7	78.1
157.5°	4.5	20.1	40.2	55.8	66.9
160°	4.5	17.9	35.7	46.9	60.2
162.5°	4.5	15.6	29.0	40.2	51.3
165°	4.5	13.4	24.5	31.2	42.4
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)