

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: **4SNLED-LD5-54HL-SLN-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 (P27402)  
Test Lab: INNOVATION CENTER-P2  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: METALUX  
Catalog Number: 4SNLED-LD5-54HL-SLN-UNV-L940-CD1-U  
Description: 4FT LINEAR SNLED LED FIXTURE  
SQUARE NARROW LENS  
Light Source: -  
Ballast/Driver: -

**Summary**

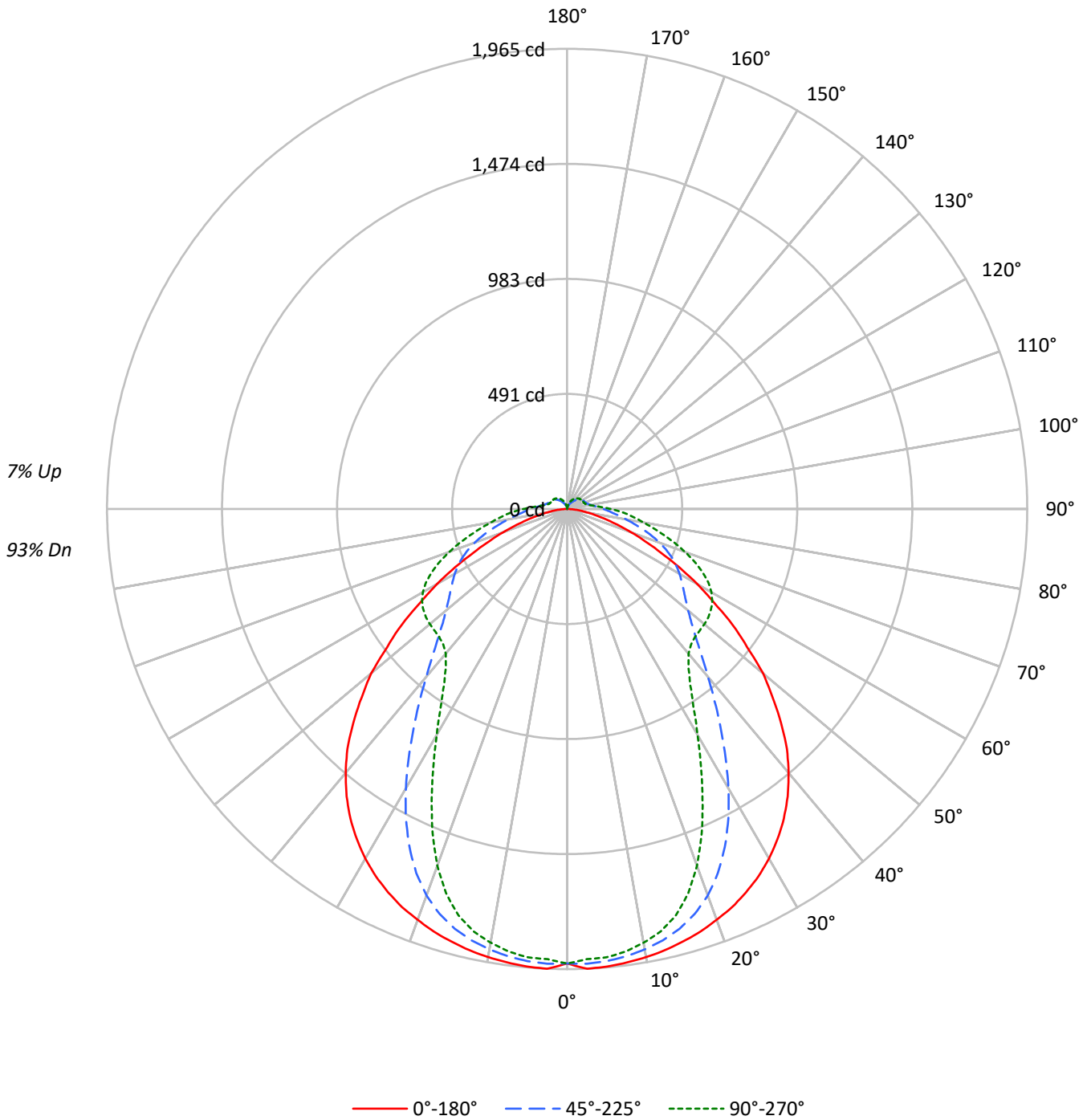
Lumens per Lamp: N/A  
Luminaire Lumens: 4881.0 lumens  
Efficiency: N/A  
Efficacy: 125.2 lumens/watt  
Spacing Criteria (0/90/45): 1.31 / 0.96 / 1.11  
Luminous Opening: Rectangular w/ Sides (W: 0.33' x L: 4' x H: 0.12')  
CIE Type: Direct

Input Watts (W): 39  
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	117	117	117	117	114	114	114	114	107	107	107	101	101	101	95	95	95	93
1	107	102	97	93	103	99	94	91	93	90	87	88	85	83	83	81	79	76
2	97	89	82	76	94	86	80	75	81	76	72	77	73	69	73	70	66	64
3	89	78	70	64	86	76	69	63	72	66	61	68	63	59	65	61	57	54
4	82	70	61	55	79	68	60	54	65	58	52	61	55	51	58	53	49	47
5	75	63	54	47	73	61	53	47	58	51	46	55	49	44	53	48	43	41
6	70	57	48	42	67	55	47	41	53	46	40	51	44	39	48	43	39	36
7	65	52	43	37	63	51	42	37	48	41	36	46	40	35	44	39	35	32
8	61	47	39	33	59	46	39	33	44	37	32	43	36	32	41	35	31	29
9	57	44	36	30	55	43	35	30	41	34	29	40	33	29	38	33	28	27
10	53	40	33	28	52	40	32	27	38	32	27	37	31	27	35	30	26	24

**AVERAGE LUMINANCE (cd/sqm):**

	0°	45°	90°
0°	15684	15684	15684
5°	15865	15338	15098
10°	15860	14914	14477
15°	15865	14414	13651
20°	15872	13672	12260
25°	15879	12528	10381
30°	15803	11023	8539
35°	15577	9379	7156
40°	15122	7943	6469
45°	14320	6903	6420
50°	13229	6311	6645
55°	11649	6065	6878
60°	9829	5979	6972
65°	7905	5847	6756
70°	6349	5545	6230
75°	4787	5018	5528
80°	3534	4506	4917
85°	2364	4250	4523



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	183.6	3.8
10°-20°	519.0	10.6
20°-30°	725.5	14.9
30°-40°	752.6	15.4
40°-50°	695.2	14.2
50°-60°	620.7	12.7
60°-70°	503.0	10.3
70°-80°	334.6	6.9
80°-90°	191.6	3.9
90°-100°	106.0	2.2
100°-110°	71.8	1.5
110°-120°	59.8	1.2
120°-130°	48.6	1.0
130°-140°	35.0	0.7
140°-150°	21.1	0.4
150°-160°	10.2	0.2
160°-170°	2.6	0.1
170°-180°	0.0	0.0
0°-30°	1428.2	29.3
0°-40°	2180.7	44.7
0°-60°	3496.7	71.6
0°-90°	4525.9	92.7
90°-120°	237.6	4.9
90°-150°	342.3	7.0
90°-180°	355.0	7.3
0°-180°	4881.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	1941	1941	1941	1941	1941	
5°	1961	1928	1938	1925	1922	187
15°	1912	1872	1856	1814	1796	540
25°	1807	1727	1593	1426	1368	833
35°	1614	1436	1142	959	916	1007
45°	1292	1024	778	750	773	994
55°	864	653	607	706	750	768
65°	441	395	494	606	638	446
75°	171	214	333	408	425	188
85°	35	100	196	251	258	40
90°	2	70	155	187	186	3
95°	2	59	123	132	127	1
105°	1	52	89	86	82	1
115°	1	46	78	78	75	1
125°	1	40	69	72	71	1
135°	2	30	55	64	64	1
145°	2	19	38	50	53	1
155°	2	12	24	31	38	1
165°	2	7	12	15	20	0
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°	1940.9	1940.9	1940.9	1940.9	1940.9
2.5°	1965.3	1933.3	1943.4	1935.0	1924.0
5°	1961.1	1928.2	1938.4	1924.9	1922.3
7.5°	1953.5	1920.6	1926.5	1910.5	1906.3
10°	1943.4	1908.8	1909.7	1886.9	1881.0
12.5°	1929.9	1892.0	1886.9	1855.7	1847.3
15°	1912.2	1871.7	1855.7	1813.5	1795.8
17.5°	1892.8	1845.6	1812.7	1747.7	1719.9
20°	1866.7	1813.5	1756.2	1657.5	1620.4
22.5°	1840.5	1774.7	1682.8	1551.2	1501.4
25°	1806.8	1726.6	1593.4	1426.3	1368.1
27.5°	1768.8	1670.1	1490.5	1298.1	1235.7
30°	1724.1	1601.8	1377.4	1172.5	1113.4
32.5°	1671.8	1525.0	1258.5	1059.4	1004.6
35°	1613.6	1436.5	1142.1	959.1	916.0
37.5°	1547.0	1339.5	1034.1	878.1	850.2
40°	1471.1	1234.0	934.6	815.7	806.4
42.5°	1389.2	1131.1	849.4	775.2	783.6
45°	1292.2	1024.0	777.7	749.9	772.6
47.5°	1190.2	919.4	719.5	735.5	768.4
50°	1091.5	822.4	674.0	726.2	765.0
52.5°	969.2	735.5	637.7	717.8	760.0
55°	863.7	652.9	607.3	706.0	749.9
57.5°	742.3	578.6	580.3	690.8	734.7
60°	641.1	511.2	554.2	669.7	711.9
62.5°	538.1	450.4	525.5	641.9	679.9
65°	441.1	394.8	494.3	605.6	637.7
67.5°	360.2	344.1	458.9	561.8	588.8
70°	291.8	297.8	420.1	512.8	535.6
72.5°	224.4	254.7	377.9	460.5	479.9
75°	171.2	214.2	333.2	408.3	425.1
77.5°	126.5	178.8	292.7	361.0	375.4
80°	89.4	147.6	254.7	319.7	330.6
82.5°	59.9	121.5	223.5	282.6	292.7
85°	34.6	99.5	196.5	251.4	258.1
87.5°	14.3	82.7	174.6	219.3	222.7
90°	1.7	70.0	155.2	187.3	185.6
92.5°	1.7	63.3	138.3	156.9	152.7
95°	1.7	59.0	123.2	131.6	127.4
97.5°	1.7	56.5	109.7	113.0	108.8
100°	0.8	54.8	100.4	100.4	96.2
102.5°	0.8	53.1	93.6	91.1	87.7
105°	0.8	51.5	88.6	86.0	81.8
107.5°	0.8	50.6	85.2	82.7	78.4
110°	0.8	48.9	82.7	80.1	76.8



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**CANDELA DISTRIBUTION (continued):**

	0°	22.5°	45°	67.5°	90°
112.5°	0.8	48.1	81.0	79.3	75.1
115°	0.8	46.4	78.4	77.6	75.1
117.5°	0.8	44.7	76.8	76.8	74.2
120°	0.8	43.0	74.2	75.9	73.4
122.5°	0.8	41.3	71.7	74.2	71.7
125°	0.8	39.6	69.2	72.5	70.9
127.5°	1.7	37.1	65.8	70.9	69.2
130°	0.8	34.6	62.4	69.2	68.3
132.5°	1.7	32.1	59.0	66.6	66.6
135°	1.7	29.5	54.8	64.1	64.1
137.5°	1.7	26.1	50.6	60.7	61.6
140°	1.7	23.6	46.4	57.4	59.0
142.5°	1.7	21.1	42.2	54.0	56.5
145°	1.7	18.6	38.0	49.8	53.1
147.5°	1.7	16.9	33.7	44.7	49.8
150°	1.7	14.3	30.4	40.5	45.5
152.5°	1.7	12.7	27.0	36.3	42.2
155°	1.7	11.8	23.6	31.2	38.0
157.5°	1.7	10.1	20.2	27.0	33.7
160°	1.7	8.4	16.9	23.6	28.7
162.5°	1.7	7.6	14.3	19.4	25.3
165°	1.7	6.7	11.8	15.2	20.2
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)