

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-LD5-50HL-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-LD5-50HL-SLN-UNV-L940-CD1-U
Description: 4FT LINEAR SNLED LED FIXTURE
SQUARE NARROW LENS
Light Source: -
Ballast/Driver: -

Summary

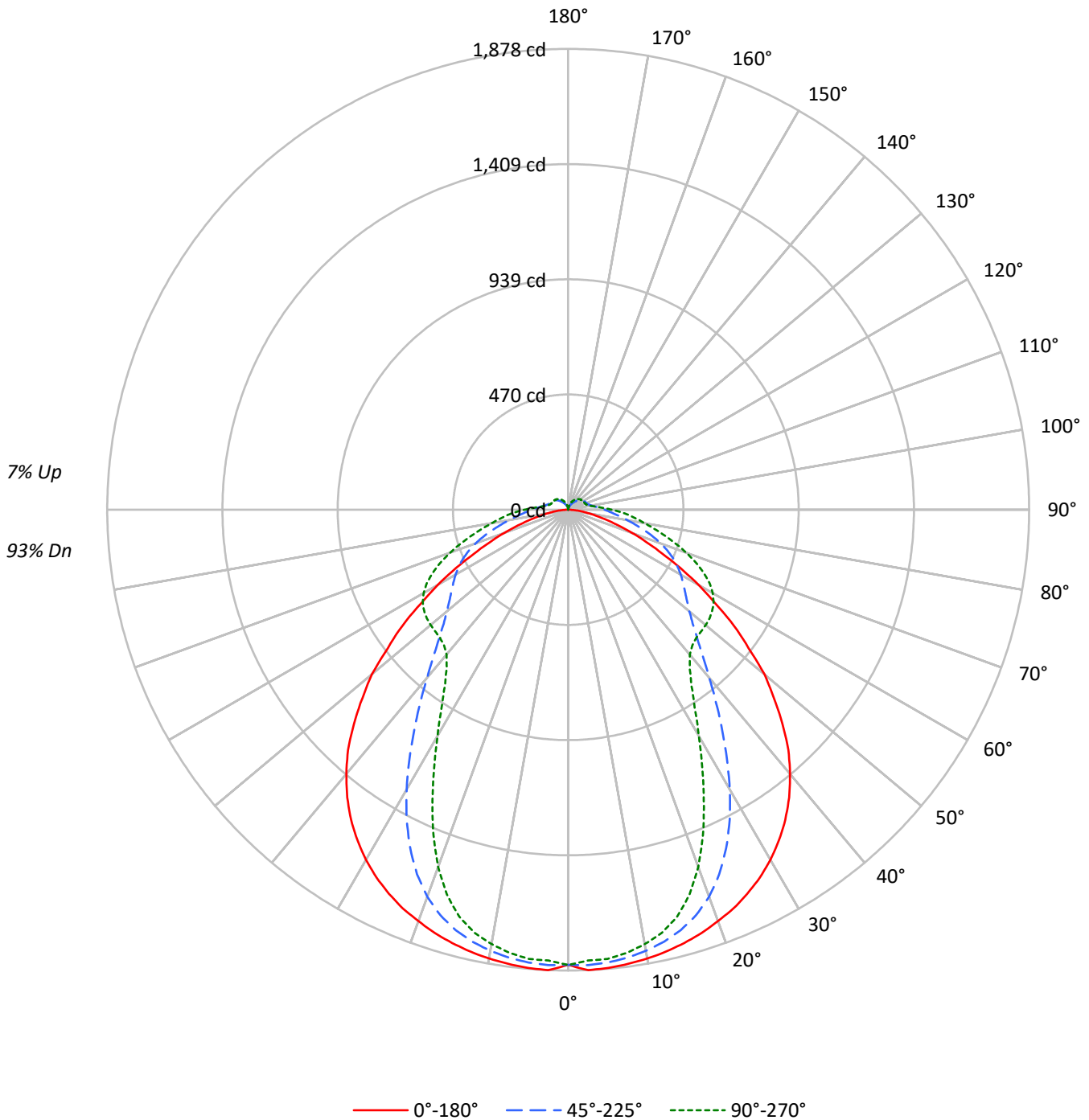
Lumens per Lamp: N/A
Luminaire Lumens: 4665.0 lumens
Efficiency: N/A
Efficacy: 126.1 lumens/watt
Spacing Criteria (0/90/45): 1.31 / 0.96 / 1.11
Luminous Opening: Rectangular w/ Sides (W: 0.33' x L: 4' x H: 0.12')
CIE Type: Direct

Input Watts (W): 37
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°	14990	14990	14990
5°	15163	14659	14430
10°	15158	14254	13836
15°	15163	13777	13046
20°	15169	13066	11717
25°	15176	11973	9922
30°	15103	10536	8161
35°	14888	8964	6839
40°	14453	7591	6183
45°	13686	6598	6136
50°	12644	6031	6351
55°	11133	5797	6573
60°	9394	5715	6664
65°	7555	5588	6457
70°	6069	5300	5954
75°	4577	4795	5284
80°	3380	4308	4700
85°	2261	4062	4324



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	175.5	3.8
10°-20°	496.0	10.6
20°-30°	693.4	14.9
30°-40°	719.3	15.4
40°-50°	664.5	14.2
50°-60°	593.2	12.7
60°-70°	480.8	10.3
70°-80°	319.8	6.9
80°-90°	183.1	3.9
90°-100°	101.3	2.2
100°-110°	68.6	1.5
110°-120°	57.1	1.2
120°-130°	46.4	1.0
130°-140°	33.5	0.7
140°-150°	20.2	0.4
150°-160°	9.7	0.2
160°-170°	2.5	0.1
170°-180°	0.0	0.0
0°-30°	1365.0	29.3
0°-40°	2084.2	44.7
0°-60°	3341.9	71.6
0°-90°	4325.6	92.7
90°-120°	227.0	4.9
90°-150°	327.2	7.0
90°-180°	339.0	7.3
0°-180°	4665.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1855	1855	1855	1855	1855	
5°	1874	1843	1853	1840	1837	178
15°	1828	1789	1774	1733	1716	516
25°	1727	1650	1523	1363	1308	796
35°	1542	1373	1092	917	876	962
45°	1235	979	743	717	738	950
55°	826	624	580	675	717	734
65°	422	377	472	579	610	426
75°	164	205	318	390	406	179
85°	33	95	188	240	247	38
90°	2	67	148	179	177	3
95°	2	56	118	126	122	1
105°	1	49	85	82	78	1
115°	1	44	75	74	72	1
125°	1	38	66	69	68	1
135°	2	28	52	61	61	1
145°	2	18	36	48	51	1
155°	2	11	23	30	36	1
165°	2	6	11	14	19	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°	1855.0	1855.0	1855.0	1855.0	1855.0
2.5°	1878.4	1847.7	1857.4	1849.3	1838.9
5°	1874.3	1842.9	1852.6	1839.7	1837.3
7.5°	1867.1	1835.6	1841.3	1826.0	1821.9
10°	1857.4	1824.4	1825.2	1803.4	1797.8
12.5°	1844.5	1808.2	1803.4	1773.6	1765.5
15°	1827.6	1788.9	1773.6	1733.3	1716.3
17.5°	1809.0	1763.9	1732.5	1670.4	1643.8
20°	1784.0	1733.3	1678.4	1584.1	1548.6
22.5°	1759.1	1696.2	1608.3	1482.5	1435.0
25°	1726.8	1650.2	1522.8	1363.2	1307.6
27.5°	1690.5	1596.2	1424.5	1240.7	1181.0
30°	1647.8	1530.9	1316.5	1120.6	1064.1
32.5°	1597.8	1457.6	1202.8	1012.5	960.1
35°	1542.2	1372.9	1091.6	916.6	875.5
37.5°	1478.5	1280.2	988.4	839.2	812.6
40°	1406.0	1179.4	893.2	779.6	770.7
42.5°	1327.8	1081.1	811.8	740.9	748.9
45°	1235.0	978.7	743.3	716.7	738.4
47.5°	1137.5	878.7	687.7	703.0	734.4
50°	1043.2	786.0	644.1	694.1	731.2
52.5°	926.3	703.0	609.5	686.0	726.4
55°	825.5	624.0	580.4	674.8	716.7
57.5°	709.4	553.0	554.6	660.3	702.2
60°	612.7	488.5	529.7	640.1	680.4
62.5°	514.3	430.5	502.2	613.5	649.8
65°	421.6	377.3	472.4	578.8	609.5
67.5°	344.2	328.9	438.6	536.9	562.7
70°	278.9	284.6	401.5	490.1	511.9
72.5°	214.4	243.5	361.2	440.2	458.7
75°	163.7	204.8	318.4	390.2	406.3
77.5°	120.9	170.9	279.7	345.0	358.7
80°	85.5	141.1	243.5	305.5	316.0
82.5°	57.2	116.1	213.6	270.1	279.7
85°	33.1	95.1	187.8	240.2	246.7
87.5°	13.7	79.0	166.9	209.6	212.8
90°	1.6	66.9	148.3	179.0	177.4
92.5°	1.6	60.5	132.2	149.9	145.9
95°	1.6	56.4	117.7	125.8	121.7
97.5°	1.6	54.0	104.8	108.0	104.0
100°	0.8	52.4	95.9	95.9	91.9
102.5°	0.8	50.8	89.5	87.1	83.8
105°	0.8	49.2	84.6	82.2	78.2
107.5°	0.8	48.4	81.4	79.0	75.0
110°	0.8	46.8	79.0	76.6	73.4



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	0.8	46.0	77.4	75.8	71.7
115°	0.8	44.3	75.0	74.2	71.7
117.5°	0.8	42.7	73.4	73.4	70.9
120°	0.8	41.1	70.9	72.6	70.1
122.5°	0.8	39.5	68.5	70.9	68.5
125°	0.8	37.9	66.1	69.3	67.7
127.5°	1.6	35.5	62.9	67.7	66.1
130°	0.8	33.1	59.7	66.1	65.3
132.5°	1.6	30.6	56.4	63.7	63.7
135°	1.6	28.2	52.4	61.3	61.3
137.5°	1.6	25.0	48.4	58.0	58.9
140°	1.6	22.6	44.3	54.8	56.4
142.5°	1.6	20.2	40.3	51.6	54.0
145°	1.6	17.7	36.3	47.6	50.8
147.5°	1.6	16.1	32.2	42.7	47.6
150°	1.6	13.7	29.0	38.7	43.5
152.5°	1.6	12.1	25.8	34.7	40.3
155°	1.6	11.3	22.6	29.8	36.3
157.5°	1.6	9.7	19.3	25.8	32.2
160°	1.6	8.1	16.1	22.6	27.4
162.5°	1.6	7.3	13.7	18.5	24.2
165°	1.6	6.4	11.3	14.5	19.3
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)