

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-LD5-60HL-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: 4SNLED-LD5-60HL-SLC-UNV-L940-CD1-U
Description: 4FT LINEAR SNLED LED FIXTURE
CLEAR SQUARE LENS
Light Source: -
Ballast/Driver: -

Summary

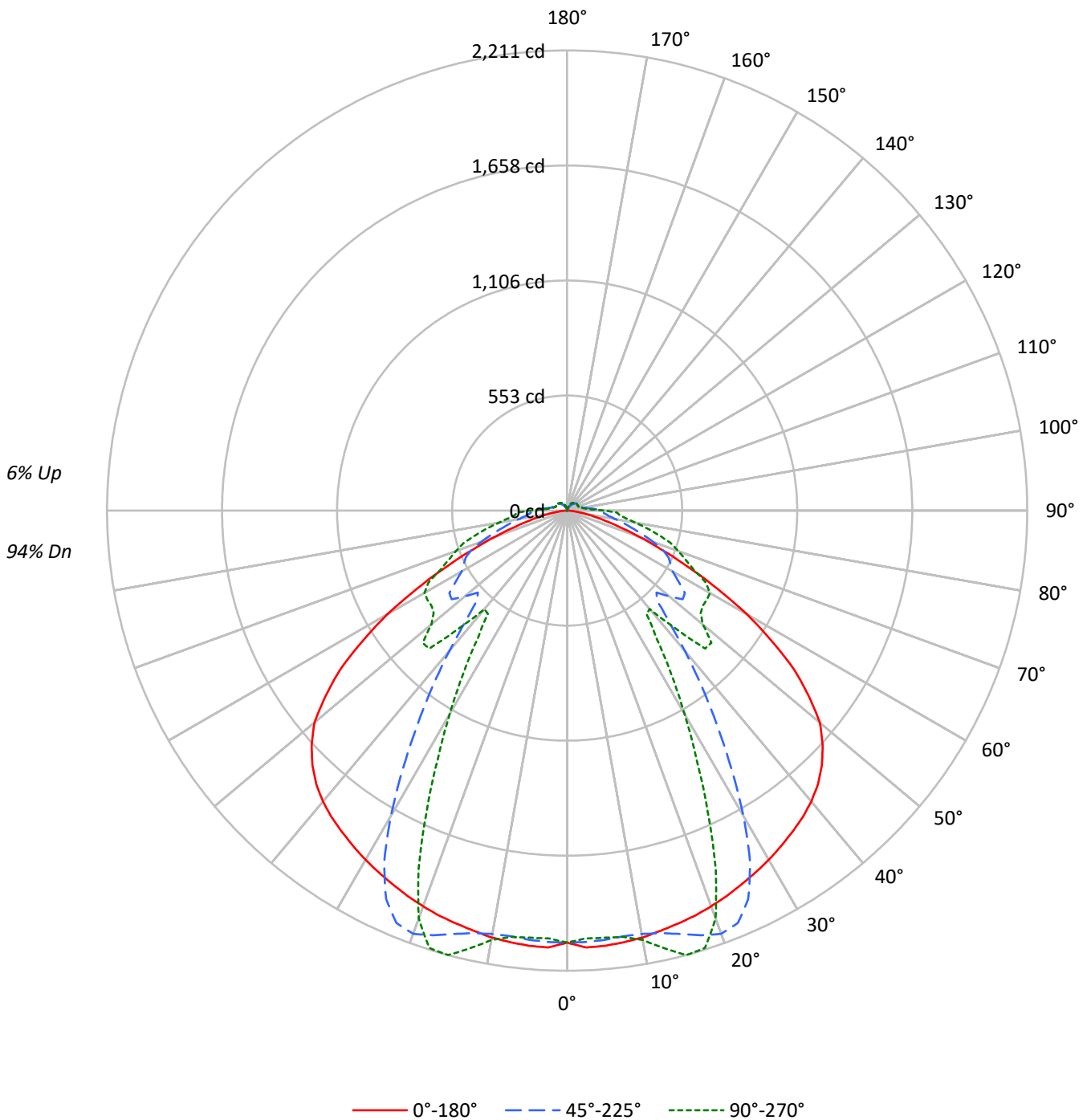
Lumens per Lamp: N/A
Luminaire Lumens: 5332.0 lumens
Efficiency: N/A
Efficacy: 124.0 lumens/watt
Spacing Criteria (0/90/45): 1.4 / 1 / 1.08
Luminous Opening: Rectangular w/ Sides (W: 0.33' x L: 4' x H: 0.12')
CIE Type: Direct

Input Watts (W): 43
Input Voltage (V): NR
Input Current (A_{in}): 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	63	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°	16774	16774	16774
5°	16978	16381	16180
10°	16999	16132	16124
15°	17046	16359	16805
20°	17204	16846	15774
25°	17419	16190	12146
30°	17762	13560	8639
35°	18202	10270	5850
40°	18758	7465	4954
45°	19184	5415	7787
50°	19211	5996	7391
55°	17956	6901	7298
60°	15300	6315	7758
65°	11510	6368	7096
70°	8077	5797	6605
75°	5293	4857	5927
80°	3380	4161	4934
85°	1817	3956	4429



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	197.5	3.7
10°-20°	596.4	11.2
20°-30°	866.3	16.2
30°-40°	827.7	15.5
40°-50°	757.1	14.2
50°-60°	699.1	13.1
60°-70°	555.3	10.4
70°-80°	342.7	6.4
80°-90°	186.6	3.5
90°-100°	94.3	1.8
100°-110°	59.3	1.1
110°-120°	50.2	0.9
120°-130°	41.0	0.8
130°-140°	29.4	0.6
140°-150°	18.1	0.3
150°-160°	8.6	0.2
160°-170°	2.2	0.0
170°-180°	0.0	0.0
0°-30°	1660.1	31.1
0°-40°	2487.9	46.7
0°-60°	3944.1	74.0
0°-90°	5028.8	94.3
90°-120°	203.8	3.8
90°-150°	292.4	5.5
90°-180°	303.0	5.7
0°-180°	5332.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2076	2076	2076	2076	2076	
5°	2099	2066	2070	2059	2060	200
15°	2055	2027	2106	2184	2211	581
25°	1982	2021	2059	1743	1601	916
35°	1886	1855	1251	861	749	1182
45°	1731	1207	610	778	937	1330
55°	1331	619	691	743	796	1173
65°	642	402	538	654	670	649
75°	189	214	322	427	456	215
85°	27	91	183	249	253	34
90°	1	68	164	194	179	1
95°	0	63	113	100	95	0
105°	0	57	70	63	62	0
115°	0	47	67	60	57	0
125°	1	38	60	58	55	1
135°	1	27	48	52	50	1
145°	1	16	33	42	45	1
155°	2	10	20	27	32	1
165°	2	6	10	13	18	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°	2075.7	2075.7	2075.7	2075.7	2075.7
2.5°	2101.4	2071.1	2074.8	2068.3	2057.3
5°	2098.7	2066.5	2070.2	2059.2	2060.1
7.5°	2091.3	2058.2	2062.8	2061.0	2065.6
10°	2083.0	2048.1	2065.6	2081.2	2095.0
12.5°	2068.3	2037.1	2079.4	2125.3	2153.8
15°	2054.6	2027.0	2106.0	2184.1	2210.8
17.5°	2040.8	2023.3	2139.1	2207.1	2203.4
20°	2023.3	2021.5	2163.9	2140.9	2084.9
22.5°	2004.0	2022.4	2144.6	1976.5	1866.2
25°	1982.0	2020.6	2059.2	1743.1	1600.6
27.5°	1959.9	2012.3	1903.9	1487.6	1347.0
30°	1937.9	1990.2	1694.4	1254.2	1126.5
32.5°	1912.1	1942.5	1466.5	1047.5	929.9
35°	1885.5	1855.2	1250.6	861.0	748.9
37.5°	1857.9	1729.3	1056.7	697.4	625.7
40°	1824.8	1571.2	878.4	598.2	617.5
42.5°	1783.5	1393.0	721.3	627.6	761.7
45°	1731.1	1207.4	610.1	778.3	937.2
47.5°	1665.0	1029.1	582.6	891.3	940.9
50°	1585.0	865.6	640.4	854.5	850.9
52.5°	1463.7	729.6	699.2	779.2	808.6
55°	1331.4	619.3	691.0	743.4	795.7
57.5°	1164.2	544.9	634.0	736.0	796.6
60°	997.9	495.3	585.3	735.1	792.1
62.5°	814.1	450.2	560.5	717.6	751.6
65°	642.3	401.5	538.4	654.2	669.8
67.5°	492.5	351.9	499.9	583.5	614.7
70°	371.2	303.2	439.2	529.3	567.9
72.5°	267.4	257.3	376.7	481.5	521.9
75°	189.3	214.1	322.5	427.3	455.8
77.5°	130.5	174.6	276.6	367.5	390.5
80°	85.5	139.7	235.2	316.1	331.7
82.5°	51.5	112.1	204.0	276.6	284.8
85°	26.6	91.0	182.9	249.0	252.7
87.5°	8.3	76.3	170.9	236.1	240.7
90°	0.9	68.0	163.6	193.9	179.2
92.5°	0.0	64.3	141.5	132.3	118.5
95°	0.0	63.4	113.0	100.2	94.6
97.5°	0.0	61.6	92.8	83.6	80.9
100°	0.0	59.7	79.9	73.5	72.6
102.5°	0.0	58.8	72.6	67.1	66.2
105°	0.0	57.0	69.8	63.4	62.5
107.5°	0.0	54.2	68.0	61.6	59.7
110°	0.0	51.5	68.0	60.6	57.9



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	0.0	48.7	68.0	59.7	57.0
115°	0.0	46.9	67.1	59.7	57.0
117.5°	0.9	45.0	66.2	59.7	57.0
120°	0.0	43.2	64.3	59.7	56.1
122.5°	0.9	40.4	62.5	58.8	56.1
125°	0.9	37.7	59.7	57.9	55.1
127.5°	0.9	34.9	57.0	56.1	53.3
130°	0.9	32.2	54.2	55.1	52.4
132.5°	0.9	29.4	50.5	53.3	51.5
135°	0.9	26.6	47.8	52.4	50.5
137.5°	0.9	23.9	44.1	49.6	49.6
140°	0.9	21.1	40.4	47.8	48.7
142.5°	0.9	19.3	36.8	45.9	46.9
145°	0.9	16.5	33.1	42.3	45.0
147.5°	0.9	14.7	29.4	38.6	42.3
150°	0.9	12.9	25.7	34.9	38.6
152.5°	0.9	11.0	23.0	30.3	35.8
155°	1.8	10.1	20.2	26.6	32.2
157.5°	1.8	8.3	16.5	23.0	27.6
160°	1.8	7.4	14.7	19.3	24.8
162.5°	1.8	6.4	11.9	16.5	21.1
165°	1.8	5.5	10.1	12.9	17.5
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)