

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: **2SNLED-LD5-45HL-SLN-UNV-L830-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: 2SNLED-LD5-45HL-SLN-UNV-L830-CD1-U
Description: 2FT LINEAR SNLED LED FIXTURE
SQUARE NARROW LENS
Light Source: -
Ballast/Driver: -

Summary

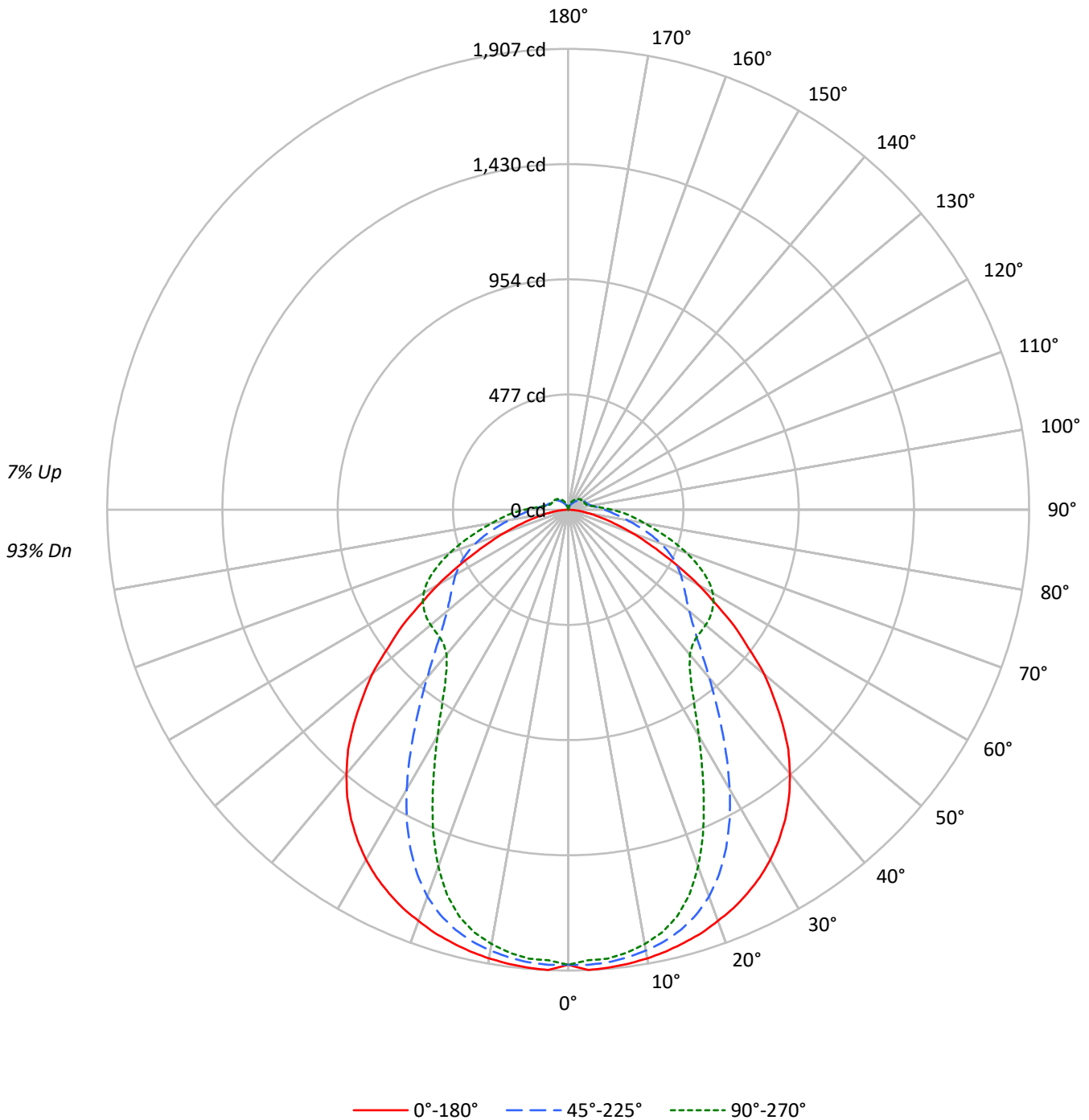
Lumens per Lamp: N/A
Luminaire Lumens: 4735.0 lumens
Efficiency: N/A
Efficacy: 131.5 lumens/watt
Spacing Criteria (0/90/45): 1.31 / 0.96 / 1.11
Luminous Opening: Rectangular w/ Sides (W: 0.33' x L: 2' x H: 0.12')
CIE Type: Direct

Input Watts (W): 36
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°	30430	30430	30430
5°	30698	29703	29292
10°	30603	28828	28087
15°	30527	27814	26485
20°	30452	26333	23786
25°	30370	24087	20142
30°	30126	21155	16567
35°	29589	17964	13883
40°	28609	15183	12552
45°	26968	13166	12456
50°	24777	12008	12894
55°	21675	11512	13343
60°	18139	11311	13528
65°	14433	11020	13106
70°	11417	10405	12087
75°	8410	9363	10726
80°	5958	8345	9543
85°	3624	7791	8777



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	178.1	3.8
10°-20°	503.5	10.6
20°-30°	703.8	14.9
30°-40°	730.0	15.4
40°-50°	674.4	14.2
50°-60°	602.2	12.7
60°-70°	488.0	10.3
70°-80°	324.6	6.9
80°-90°	185.9	3.9
90°-100°	102.8	2.2
100°-110°	69.6	1.5
110°-120°	58.0	1.2
120°-130°	47.1	1.0
130°-140°	34.0	0.7
140°-150°	20.5	0.4
150°-160°	9.9	0.2
160°-170°	2.5	0.1
170°-180°	0.0	0.0
0°-30°	1385.4	29.3
0°-40°	2115.5	44.7
0°-60°	3392.1	71.6
0°-90°	4390.5	92.7
90°-120°	230.5	4.9
90°-150°	332.1	7.0
90°-180°	344.0	7.3
0°-180°	4735.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1883	1883	1883	1883	1883	
5°	1902	1871	1880	1867	1865	181
15°	1855	1816	1800	1759	1742	524
25°	1753	1675	1546	1384	1327	808
35°	1565	1394	1108	930	889	977
45°	1254	993	754	727	750	964
55°	838	633	589	685	727	745
65°	428	383	480	588	619	433
75°	166	208	323	396	412	182
85°	34	97	191	244	250	39
90°	2	68	151	182	180	3
95°	2	57	120	128	124	1
105°	1	50	86	84	79	1
115°	1	45	76	75	73	1
125°	1	38	67	70	69	1
135°	2	29	53	62	62	1
145°	2	18	37	48	52	1
155°	2	12	23	30	37	1
165°	2	6	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°	1882.8	1882.8	1882.8	1882.8	1882.8
2.5°	1906.6	1875.5	1885.3	1877.1	1866.5
5°	1902.5	1870.6	1880.4	1867.3	1864.8
7.5°	1895.1	1863.2	1868.9	1853.4	1849.3
10°	1885.3	1851.7	1852.5	1830.5	1824.7
12.5°	1872.2	1835.4	1830.5	1800.2	1792.0
15°	1855.0	1815.7	1800.2	1759.3	1742.1
17.5°	1836.2	1790.4	1758.4	1695.4	1668.4
20°	1810.8	1759.3	1703.6	1607.9	1571.9
22.5°	1785.5	1721.6	1632.4	1504.8	1456.5
25°	1752.7	1675.0	1545.7	1383.7	1327.2
27.5°	1715.9	1620.2	1445.9	1259.3	1198.8
30°	1672.5	1553.9	1336.2	1137.4	1080.1
32.5°	1621.8	1479.4	1220.8	1027.7	974.6
35°	1565.3	1393.5	1107.9	930.4	888.6
37.5°	1500.7	1299.4	1003.2	851.8	824.8
40°	1427.1	1197.1	906.6	791.3	782.3
42.5°	1347.7	1097.3	824.0	752.0	760.2
45°	1253.6	993.4	754.4	727.4	749.5
47.5°	1154.6	891.9	698.0	713.5	745.4
50°	1058.8	797.8	653.8	704.5	742.2
52.5°	940.2	713.5	618.6	696.3	737.3
55°	837.9	633.3	589.2	684.9	727.4
57.5°	720.1	561.3	563.0	670.2	712.7
60°	621.9	495.9	537.6	649.7	690.6
62.5°	522.1	437.0	509.8	622.7	659.5
65°	428.0	382.9	479.5	587.5	618.6
67.5°	349.4	333.9	445.1	545.0	571.1
70°	283.1	288.8	407.5	497.5	519.6
72.5°	217.7	247.1	366.6	446.8	465.6
75°	166.1	207.8	323.2	396.0	412.4
77.5°	122.7	173.5	283.9	350.2	364.1
80°	86.7	143.2	247.1	310.1	320.8
82.5°	58.1	117.8	216.8	274.1	283.9
85°	33.5	96.6	190.7	243.8	250.4
87.5°	13.9	80.2	169.4	212.7	216.0
90°	1.6	67.9	150.6	181.7	180.0
92.5°	1.6	61.4	134.2	152.2	148.1
95°	1.6	57.3	119.5	127.6	123.6
97.5°	1.6	54.8	106.4	109.6	105.6
100°	0.8	53.2	97.4	97.4	93.3
102.5°	0.8	51.6	90.8	88.4	85.1
105°	0.8	49.9	85.9	83.5	79.4
107.5°	0.8	49.1	82.6	80.2	76.1
110°	0.8	47.5	80.2	77.7	74.5



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	0.8	46.6	78.6	76.9	72.8
115°	0.8	45.0	76.1	75.3	72.8
117.5°	0.8	43.4	74.5	74.5	72.0
120°	0.8	41.7	72.0	73.6	71.2
122.5°	0.8	40.1	69.6	72.0	69.6
125°	0.8	38.5	67.1	70.4	68.7
127.5°	1.6	36.0	63.8	68.7	67.1
130°	0.8	33.5	60.6	67.1	66.3
132.5°	1.6	31.1	57.3	64.6	64.6
135°	1.6	28.6	53.2	62.2	62.2
137.5°	1.6	25.4	49.1	58.9	59.7
140°	1.6	22.9	45.0	55.6	57.3
142.5°	1.6	20.5	40.9	52.4	54.8
145°	1.6	18.0	36.8	48.3	51.6
147.5°	1.6	16.4	32.7	43.4	48.3
150°	1.6	13.9	29.5	39.3	44.2
152.5°	1.6	12.3	26.2	35.2	40.9
155°	1.6	11.5	22.9	30.3	36.8
157.5°	1.6	9.8	19.6	26.2	32.7
160°	1.6	8.2	16.4	22.9	27.8
162.5°	1.6	7.4	13.9	18.8	24.5
165°	1.6	6.5	11.5	14.7	19.6
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)