

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-L935-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-L935-CD1-U
Description: 2FT LINEAR SNLED LED FIXTURE
SQUARE NARROW LENS
Light Source: -
Ballast/Driver: -

Summary

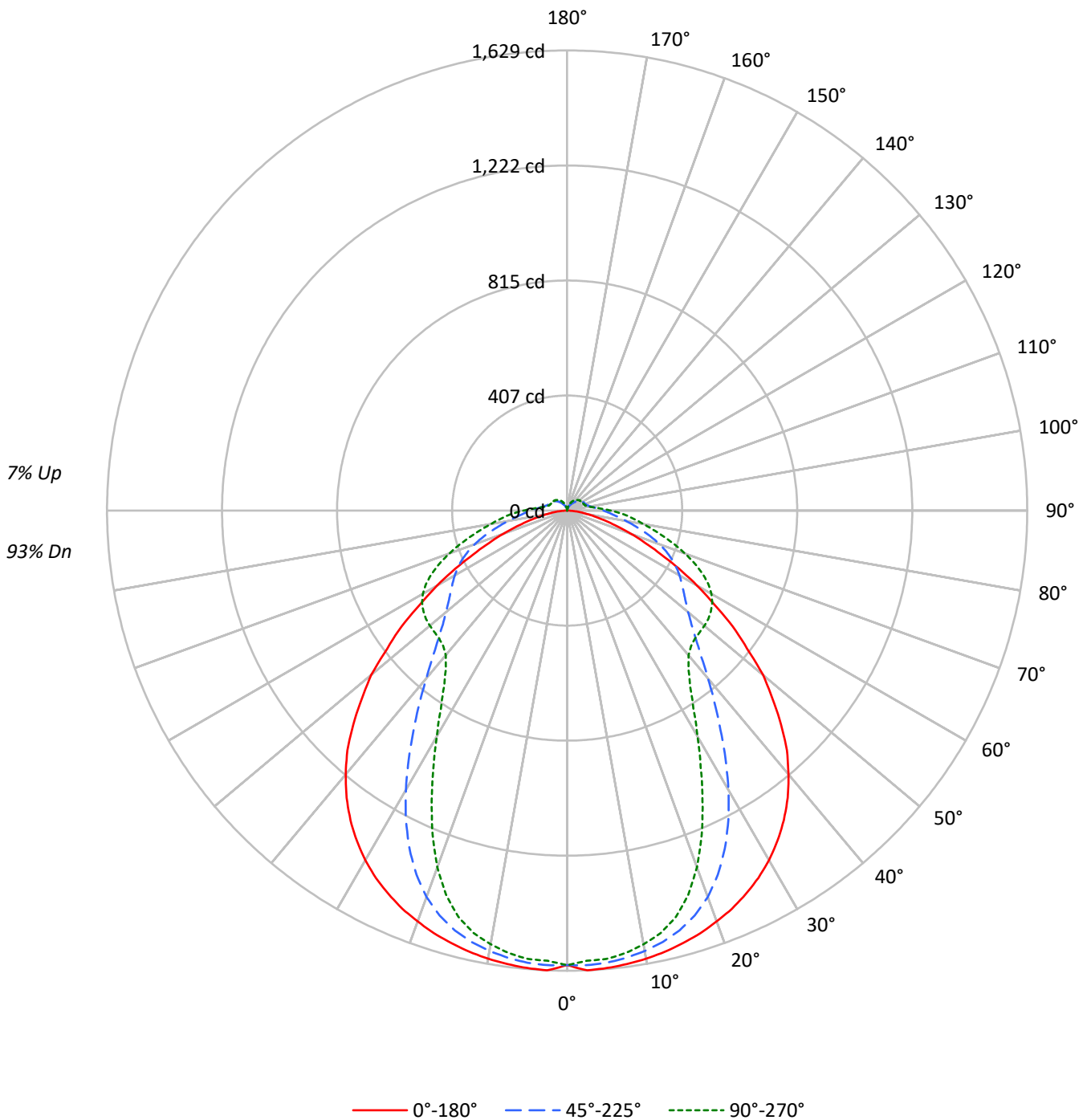
Lumens per Lamp: N/A
Luminaire Lumens: 4046.0 lumens
Efficiency: N/A
Efficacy: 112.4 lumens/watt
Spacing Criteria (0/90/45): 1.31 / 0.96 / 1.11
Luminous Opening: Rectangular w/ Sides (W: 0.33' x L: 2' x H: 0.12')
CIE Type: Direct

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	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°	26003	26003	26003
5°	26230	25381	25031
10°	26149	24634	24000
15°	26085	23766	22631
20°	26021	22501	20325
25°	25952	20582	17212
30°	25743	18077	14156
35°	25285	15351	11863
40°	24445	12974	10724
45°	23044	11252	10644
50°	21173	10261	11017
55°	18522	9835	11402
60°	15499	9666	11559
65°	12332	9416	11200
70°	9756	8891	10329
75°	7185	8001	9166
80°	5092	7133	8154
85°	3104	6655	7501



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	152.2	3.8
10°-20°	430.2	10.6
20°-30°	601.4	14.9
30°-40°	623.8	15.4
40°-50°	576.3	14.2
50°-60°	514.5	12.7
60°-70°	417.0	10.3
70°-80°	277.4	6.9
80°-90°	158.8	3.9
90°-100°	87.9	2.2
100°-110°	59.5	1.5
110°-120°	49.5	1.2
120°-130°	40.3	1.0
130°-140°	29.0	0.7
140°-150°	17.5	0.4
150°-160°	8.4	0.2
160°-170°	2.2	0.1
170°-180°	0.0	0.0
0°-30°	1183.8	29.3
0°-40°	1807.7	44.7
0°-60°	2898.5	71.6
0°-90°	3751.7	92.7
90°-120°	196.9	4.9
90°-150°	283.7	7.0
90°-180°	294.0	7.3
0°-180°	4046.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1609	1609	1609	1609	1609	
5°	1626	1598	1607	1596	1594	155
15°	1585	1552	1538	1503	1489	448
25°	1498	1431	1321	1182	1134	690
35°	1338	1191	947	795	759	835
45°	1071	849	645	622	640	824
55°	716	541	503	585	622	637
65°	366	327	410	502	529	370
75°	142	178	276	338	352	156
85°	29	82	163	208	214	33
90°	1	58	129	155	154	2
95°	1	49	102	109	106	1
105°	1	43	73	71	68	1
115°	1	38	65	64	62	1
125°	1	33	57	60	59	1
135°	1	24	45	53	53	1
145°	1	15	32	41	44	1
155°	1	10	20	26	32	1
165°	1	6	10	13	17	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°	1608.9	1608.9	1608.9	1608.9	1608.9
2.5°	1629.1	1602.6	1610.9	1604.0	1594.9
5°	1625.6	1598.4	1606.8	1595.6	1593.5
7.5°	1619.3	1592.1	1597.0	1583.7	1580.2
10°	1610.9	1582.3	1583.0	1564.1	1559.2
12.5°	1599.8	1568.3	1564.1	1538.2	1531.2
15°	1585.1	1551.5	1538.2	1503.3	1488.6
17.5°	1569.0	1529.8	1502.6	1448.7	1425.7
20°	1547.3	1503.3	1455.7	1373.9	1343.2
22.5°	1525.6	1471.1	1394.9	1285.8	1244.6
25°	1497.7	1431.3	1320.8	1182.3	1134.1
27.5°	1466.2	1384.4	1235.5	1076.1	1024.3
30°	1429.2	1327.8	1141.8	971.9	922.9
32.5°	1385.8	1264.1	1043.2	878.2	832.7
35°	1337.6	1190.7	946.7	795.0	759.3
37.5°	1282.3	1110.3	857.2	727.9	704.8
40°	1219.4	1022.9	774.7	676.1	668.4
42.5°	1151.6	937.6	704.1	642.6	649.6
45°	1071.2	848.8	644.7	621.6	640.5
47.5°	986.6	762.1	596.4	609.7	637.0
50°	904.8	681.7	558.7	602.0	634.2
52.5°	803.4	609.7	528.6	595.0	630.0
55°	716.0	541.2	503.4	585.2	621.6
57.5°	615.3	479.6	481.0	572.6	609.0
60°	531.4	423.7	459.4	555.2	590.1
62.5°	446.1	373.4	435.6	532.1	563.6
65°	365.7	327.2	409.7	502.0	528.6
67.5°	298.6	285.3	380.4	465.7	488.0
70°	241.9	246.8	348.2	425.1	444.0
72.5°	186.0	211.2	313.2	381.8	397.8
75°	141.9	177.6	276.2	338.4	352.4
77.5°	104.9	148.2	242.6	299.3	311.1
80°	74.1	122.4	211.2	265.0	274.1
82.5°	49.6	100.7	185.3	234.2	242.6
85°	28.7	82.5	162.9	208.4	214.0
87.5°	11.9	68.5	144.7	181.8	184.6
90°	1.4	58.0	128.7	155.2	153.8
92.5°	1.4	52.4	114.7	130.1	126.6
95°	1.4	48.9	102.1	109.1	105.6
97.5°	1.4	46.8	90.9	93.7	90.2
100°	0.7	45.4	83.2	83.2	79.7
102.5°	0.7	44.0	77.6	75.5	72.7
105°	0.7	42.7	73.4	71.3	67.8
107.5°	0.7	42.0	70.6	68.5	65.0
110°	0.7	40.6	68.5	66.4	63.6



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	0.7	39.9	67.1	65.7	62.2
115°	0.7	38.5	65.0	64.3	62.2
117.5°	0.7	37.1	63.6	63.6	61.5
120°	0.7	35.7	61.5	62.9	60.8
122.5°	0.7	34.3	59.4	61.5	59.4
125°	0.7	32.9	57.3	60.1	58.7
127.5°	1.4	30.8	54.5	58.7	57.3
130°	0.7	28.7	51.7	57.3	56.6
132.5°	1.4	26.6	48.9	55.2	55.2
135°	1.4	24.5	45.4	53.1	53.1
137.5°	1.4	21.7	42.0	50.3	51.0
140°	1.4	19.6	38.5	47.5	48.9
142.5°	1.4	17.5	35.0	44.7	46.8
145°	1.4	15.4	31.5	41.3	44.0
147.5°	1.4	14.0	28.0	37.1	41.3
150°	1.4	11.9	25.2	33.6	37.8
152.5°	1.4	10.5	22.4	30.1	35.0
155°	1.4	9.8	19.6	25.9	31.5
157.5°	1.4	8.4	16.8	22.4	28.0
160°	1.4	7.0	14.0	19.6	23.8
162.5°	1.4	6.3	11.9	16.1	21.0
165°	1.4	5.6	9.8	12.6	16.8
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)