

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-L950-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-L950-CD1-U
Description: 2FT LINEAR SNLED LED FIXTURE
SQUARE NARROW LENS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4415.0 lumens
Efficiency: N/A
Efficacy: 122.6 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

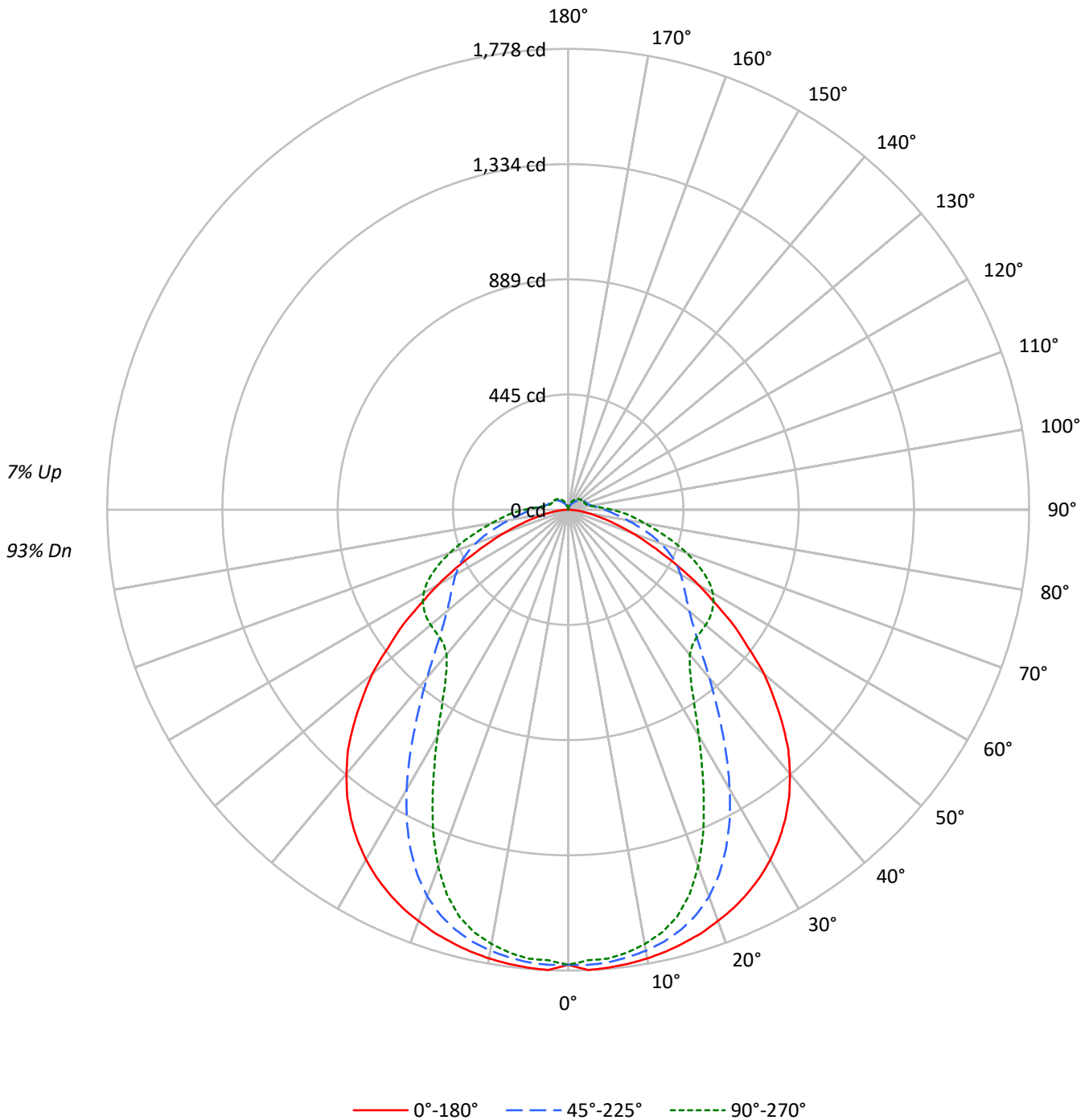
Input Watts (W): 36
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	28374	28374	28374
5°	28623	27695	27313
10°	28535	26881	26189
15°	28463	25933	24696
20°	28393	24554	22179
25°	28319	22458	18781
30°	28090	19725	15447
35°	27591	16752	12946
40°	26674	14158	11703
45°	25145	12278	11615
50°	23103	11196	12022
55°	20211	10732	12443
60°	16914	10548	12613
65°	13455	10275	12221
70°	10647	9703	11271
75°	7843	8731	10000
80°	5559	7781	8897
85°	3386	7264	8184



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	166.1	3.8
10°-20°	469.5	10.6
20°-30°	656.3	14.9
30°-40°	680.7	15.4
40°-50°	628.9	14.2
50°-60°	561.5	12.7
60°-70°	455.0	10.3
70°-80°	302.6	6.9
80°-90°	173.3	3.9
90°-100°	95.9	2.2
100°-110°	64.9	1.5
110°-120°	54.1	1.2
120°-130°	44.0	1.0
130°-140°	31.7	0.7
140°-150°	19.1	0.4
150°-160°	9.2	0.2
160°-170°	2.4	0.1
170°-180°	0.0	0.0
0°-30°	1291.8	29.3
0°-40°	1972.5	44.7
0°-60°	3162.8	71.6
0°-90°	4093.8	92.7
90°-120°	214.9	4.9
90°-150°	309.7	7.0
90°-180°	321.0	7.3
0°-180°	4415.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1756	1756	1756	1756	1756	
5°	1774	1744	1753	1741	1739	169
15°	1730	1693	1678	1640	1624	489
25°	1634	1562	1441	1290	1238	753
35°	1460	1299	1033	868	829	911
45°	1169	926	704	678	699	899
55°	781	590	549	639	678	695
65°	399	357	447	548	577	403
75°	155	194	301	369	384	170
85°	31	90	178	227	234	36
90°	2	63	140	169	168	2
95°	2	53	111	119	115	1
105°	1	46	80	78	74	1
115°	1	42	71	70	68	1
125°	1	36	63	66	64	1
135°	2	27	50	58	58	1
145°	2	17	34	45	48	1
155°	2	11	21	28	34	1
165°	2	6	11	14	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°	1755.6	1755.6	1755.6	1755.6	1755.6
2.5°	1777.7	1748.7	1757.9	1750.2	1740.3
5°	1773.9	1744.1	1753.3	1741.1	1738.8
7.5°	1767.0	1737.3	1742.6	1728.1	1724.3
10°	1757.9	1726.6	1727.4	1706.8	1701.4
12.5°	1745.7	1711.3	1706.8	1678.5	1670.9
15°	1729.6	1693.0	1678.5	1640.4	1624.4
17.5°	1712.1	1669.4	1639.6	1580.9	1555.7
20°	1688.4	1640.4	1588.5	1499.2	1465.7
22.5°	1664.8	1605.3	1522.1	1403.1	1358.1
25°	1634.3	1561.8	1441.2	1290.2	1237.5
27.5°	1599.9	1510.7	1348.2	1174.2	1117.7
30°	1559.5	1448.9	1245.9	1060.5	1007.1
32.5°	1512.2	1379.4	1138.3	958.3	908.7
35°	1459.6	1299.3	1033.1	867.5	828.6
37.5°	1399.3	1211.6	935.4	794.2	769.1
40°	1330.6	1116.2	845.4	737.8	729.4
42.5°	1256.6	1023.1	768.3	701.2	708.8
45°	1168.9	926.2	703.5	678.3	698.9
47.5°	1076.5	831.6	650.8	665.3	695.1
50°	987.3	743.9	609.6	656.9	692.0
52.5°	876.6	665.3	576.8	649.3	687.4
55°	781.3	590.5	549.3	638.6	678.3
57.5°	671.4	523.4	524.9	624.9	664.5
60°	579.9	462.4	501.3	605.8	643.9
62.5°	486.8	407.4	475.3	580.6	614.9
65°	399.0	357.1	447.1	547.8	576.8
67.5°	325.8	311.3	415.1	508.1	532.5
70°	264.0	269.3	380.0	463.9	484.5
72.5°	202.9	230.4	341.8	416.6	434.1
75°	154.9	193.8	301.4	369.3	384.5
77.5°	114.4	161.7	264.7	326.5	339.5
80°	80.9	133.5	230.4	289.2	299.1
82.5°	54.2	109.9	202.2	255.6	264.7
85°	31.3	90.0	177.8	227.4	233.5
87.5°	13.0	74.8	157.9	198.4	201.4
90°	1.5	63.3	140.4	169.4	167.9
92.5°	1.5	57.2	125.1	141.9	138.1
95°	1.5	53.4	111.4	119.0	115.2
97.5°	1.5	51.1	99.2	102.2	98.4
100°	0.8	49.6	90.8	90.8	87.0
102.5°	0.8	48.1	84.7	82.4	79.3
105°	0.8	46.5	80.1	77.8	74.0
107.5°	0.8	45.8	77.1	74.8	71.0
110°	0.8	44.3	74.8	72.5	69.4



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	0.8	43.5	73.2	71.7	67.9
115°	0.8	42.0	71.0	70.2	67.9
117.5°	0.8	40.4	69.4	69.4	67.1
120°	0.8	38.9	67.1	68.7	66.4
122.5°	0.8	37.4	64.9	67.1	64.9
125°	0.8	35.9	62.6	65.6	64.1
127.5°	1.5	33.6	59.5	64.1	62.6
130°	0.8	31.3	56.5	62.6	61.8
132.5°	1.5	29.0	53.4	60.3	60.3
135°	1.5	26.7	49.6	58.0	58.0
137.5°	1.5	23.7	45.8	54.9	55.7
140°	1.5	21.4	42.0	51.9	53.4
142.5°	1.5	19.1	38.1	48.8	51.1
145°	1.5	16.8	34.3	45.0	48.1
147.5°	1.5	15.3	30.5	40.4	45.0
150°	1.5	13.0	27.5	36.6	41.2
152.5°	1.5	11.4	24.4	32.8	38.1
155°	1.5	10.7	21.4	28.2	34.3
157.5°	1.5	9.2	18.3	24.4	30.5
160°	1.5	7.6	15.3	21.4	25.9
162.5°	1.5	6.9	13.0	17.5	22.9
165°	1.5	6.1	10.7	13.7	18.3
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)