

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-L840-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-L840-CD1-U
Description: 2FT LINEAR SNLED LED FIXTURE
SQUARE NARROW LENS
Light Source: -
Ballast/Driver: -

Summary

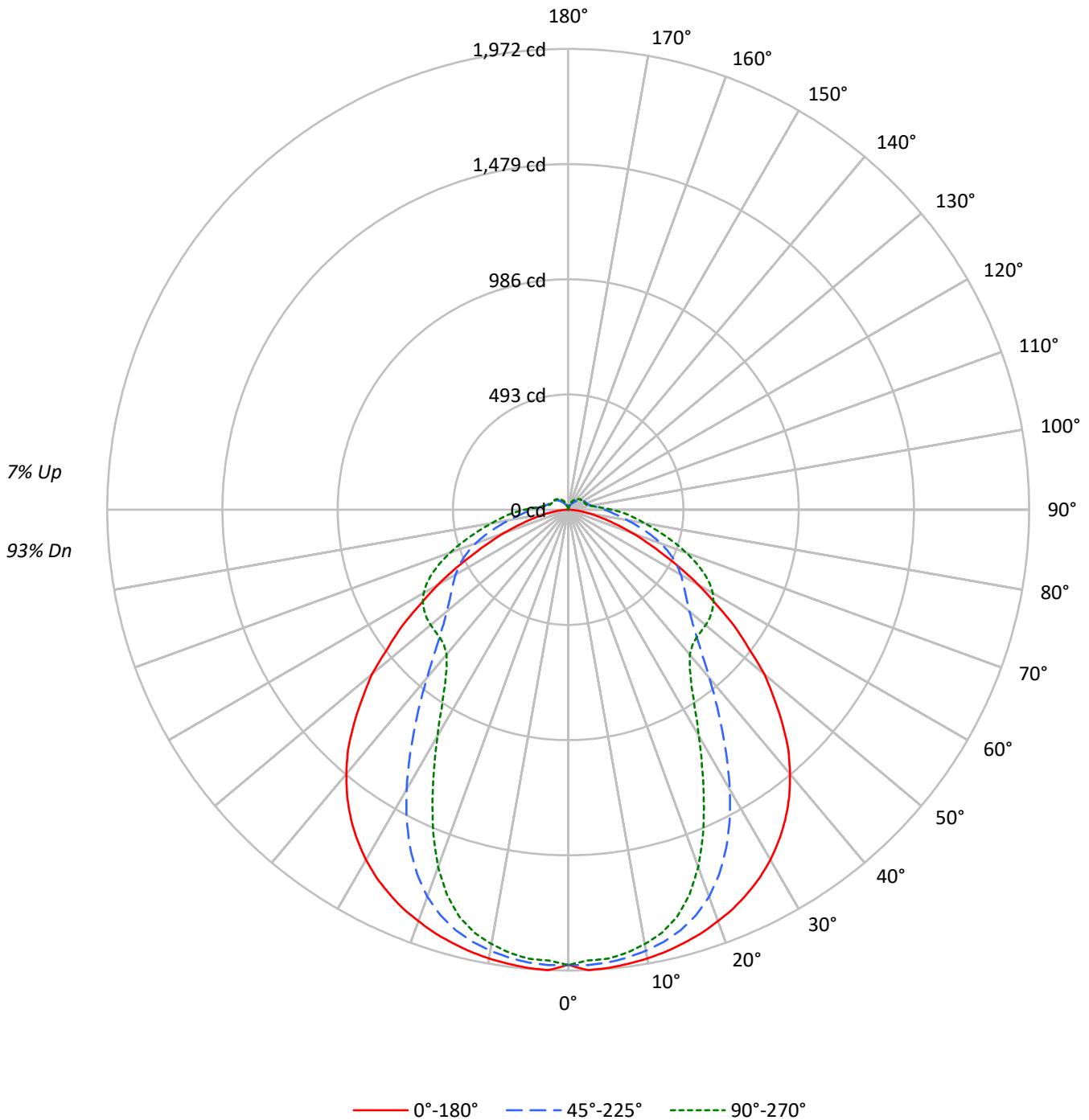
Lumens per Lamp: N/A
Luminaire Lumens: 4898.0 lumens
Efficiency: N/A
Efficacy: 136.1 lumens/watt
Spacing Criteria (0/90/45): 1.31 / 0.96 / 1.11
Luminous Opening: Rectangular w/ Sides (W: 0.33' x L: 2' x H: 0.12')
CIE Type: Direct

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°	31477	31477	31477
5°	31755	30725	30301
10°	31657	29821	29053
15°	31579	28772	27397
20°	31501	27240	24604
25°	31417	24916	20836
30°	31163	21883	17137
35°	30608	18584	14361
40°	29593	15705	12983
45°	27895	13620	12884
50°	25631	12421	13337
55°	22420	11907	13804
60°	18763	11701	13994
65°	14929	11399	13558
70°	11812	10762	12504
75°	8699	9685	11095
80°	6164	8632	9870
85°	3753	8056	9078



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	184.3	3.8
10°-20°	520.8	10.6
20°-30°	728.0	14.9
30°-40°	755.2	15.4
40°-50°	697.7	14.2
50°-60°	622.9	12.7
60°-70°	504.8	10.3
70°-80°	335.8	6.9
80°-90°	192.3	3.9
90°-100°	106.4	2.2
100°-110°	72.0	1.5
110°-120°	60.0	1.2
120°-130°	48.8	1.0
130°-140°	35.2	0.7
140°-150°	21.2	0.4
150°-160°	10.2	0.2
160°-170°	2.6	0.1
170°-180°	0.0	0.0
0°-30°	1433.1	29.3
0°-40°	2188.3	44.7
0°-60°	3508.8	71.6
0°-90°	4541.6	92.7
90°-120°	238.4	4.9
90°-150°	343.5	7.0
90°-180°	356.0	7.3
0°-180°	4898.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1948	1948	1948	1948	1948	
5°	1968	1935	1945	1932	1929	187
15°	1919	1878	1862	1820	1802	542
25°	1813	1733	1599	1431	1373	835
35°	1619	1442	1146	962	919	1010
45°	1297	1028	780	752	775	997
55°	867	655	609	708	752	771
65°	443	396	496	608	640	447
75°	172	215	334	410	427	188
85°	35	100	197	252	259	40
90°	2	70	156	188	186	3
95°	2	59	124	132	128	1
105°	1	52	89	86	82	1
115°	1	47	79	78	75	1
125°	1	40	69	73	71	1
135°	2	30	55	64	64	1
145°	2	19	38	50	53	1
155°	2	12	24	31	38	1
165°	2	7	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°	1947.6	1947.6	1947.6	1947.6	1947.6
2.5°	1972.2	1940.0	1950.2	1941.7	1930.7
5°	1968.0	1934.9	1945.1	1931.6	1929.0
7.5°	1960.3	1927.3	1933.3	1917.2	1912.9
10°	1950.2	1915.5	1916.3	1893.5	1887.5
12.5°	1936.6	1898.5	1893.5	1862.2	1853.7
15°	1918.9	1878.2	1862.2	1819.8	1802.1
17.5°	1899.4	1852.0	1819.0	1753.8	1725.9
20°	1873.2	1819.8	1762.3	1663.2	1626.0
22.5°	1846.9	1780.9	1688.6	1556.6	1506.6
25°	1813.1	1732.6	1598.9	1431.3	1372.9
27.5°	1775.0	1675.9	1495.6	1302.7	1240.0
30°	1730.1	1607.4	1382.2	1176.5	1117.3
32.5°	1677.6	1530.3	1262.9	1063.1	1008.1
35°	1619.2	1441.5	1146.1	962.4	919.2
37.5°	1552.4	1344.1	1037.7	881.1	853.2
40°	1476.2	1238.3	937.8	818.5	809.2
42.5°	1394.1	1135.1	852.4	777.9	786.3
45°	1296.7	1027.6	780.4	752.5	775.3
47.5°	1194.3	922.6	722.0	738.1	771.1
50°	1095.3	825.3	676.3	728.8	767.7
52.5°	972.6	738.1	639.9	720.3	762.6
55°	866.7	655.1	609.4	708.5	752.5
57.5°	744.9	580.7	582.3	693.2	737.2
60°	643.3	512.9	556.1	672.1	714.4
62.5°	540.0	452.0	527.3	644.1	682.2
65°	442.7	396.1	496.0	607.7	639.9
67.5°	361.4	345.3	460.5	563.7	590.8
70°	292.9	298.8	421.5	514.6	537.5
72.5°	225.2	255.6	379.2	462.2	481.6
75°	171.8	215.0	334.3	409.7	426.6
77.5°	127.0	179.4	293.7	362.3	376.7
80°	89.7	148.1	255.6	320.8	331.8
82.5°	60.1	121.9	224.3	283.6	293.7
85°	34.7	99.9	197.2	252.2	259.0
87.5°	14.4	83.0	175.2	220.1	223.5
90°	1.7	70.3	155.7	187.9	186.2
92.5°	1.7	63.5	138.8	157.4	153.2
95°	1.7	59.3	123.6	132.0	127.8
97.5°	1.7	56.7	110.0	113.4	109.2
100°	0.8	55.0	100.7	100.7	96.5
102.5°	0.8	53.3	94.0	91.4	88.0
105°	0.8	51.6	88.9	86.3	82.1
107.5°	0.8	50.8	85.5	83.0	78.7
110°	0.8	49.1	83.0	80.4	77.0



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	0.8	48.2	81.3	79.6	75.3
115°	0.8	46.6	78.7	77.9	75.3
117.5°	0.8	44.9	77.0	77.0	74.5
120°	0.8	43.2	74.5	76.2	73.6
122.5°	0.8	41.5	71.9	74.5	71.9
125°	0.8	39.8	69.4	72.8	71.1
127.5°	1.7	37.2	66.0	71.1	69.4
130°	0.8	34.7	62.6	69.4	68.6
132.5°	1.7	32.2	59.3	66.9	66.9
135°	1.7	29.6	55.0	64.3	64.3
137.5°	1.7	26.2	50.8	60.9	61.8
140°	1.7	23.7	46.6	57.6	59.3
142.5°	1.7	21.2	42.3	54.2	56.7
145°	1.7	18.6	38.1	49.9	53.3
147.5°	1.7	16.9	33.9	44.9	49.9
150°	1.7	14.4	30.5	40.6	45.7
152.5°	1.7	12.7	27.1	36.4	42.3
155°	1.7	11.9	23.7	31.3	38.1
157.5°	1.7	10.2	20.3	27.1	33.9
160°	1.7	8.5	16.9	23.7	28.8
162.5°	1.7	7.6	14.4	19.5	25.4
165°	1.7	6.8	11.9	15.2	20.3
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)