

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-L835-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-L835-CD1-U  
Description: 2FT LINEAR SNLED LED FIXTURE  
SQUARE NARROW LENS  
Light Source: -  
Ballast/Driver: -

**Summary**

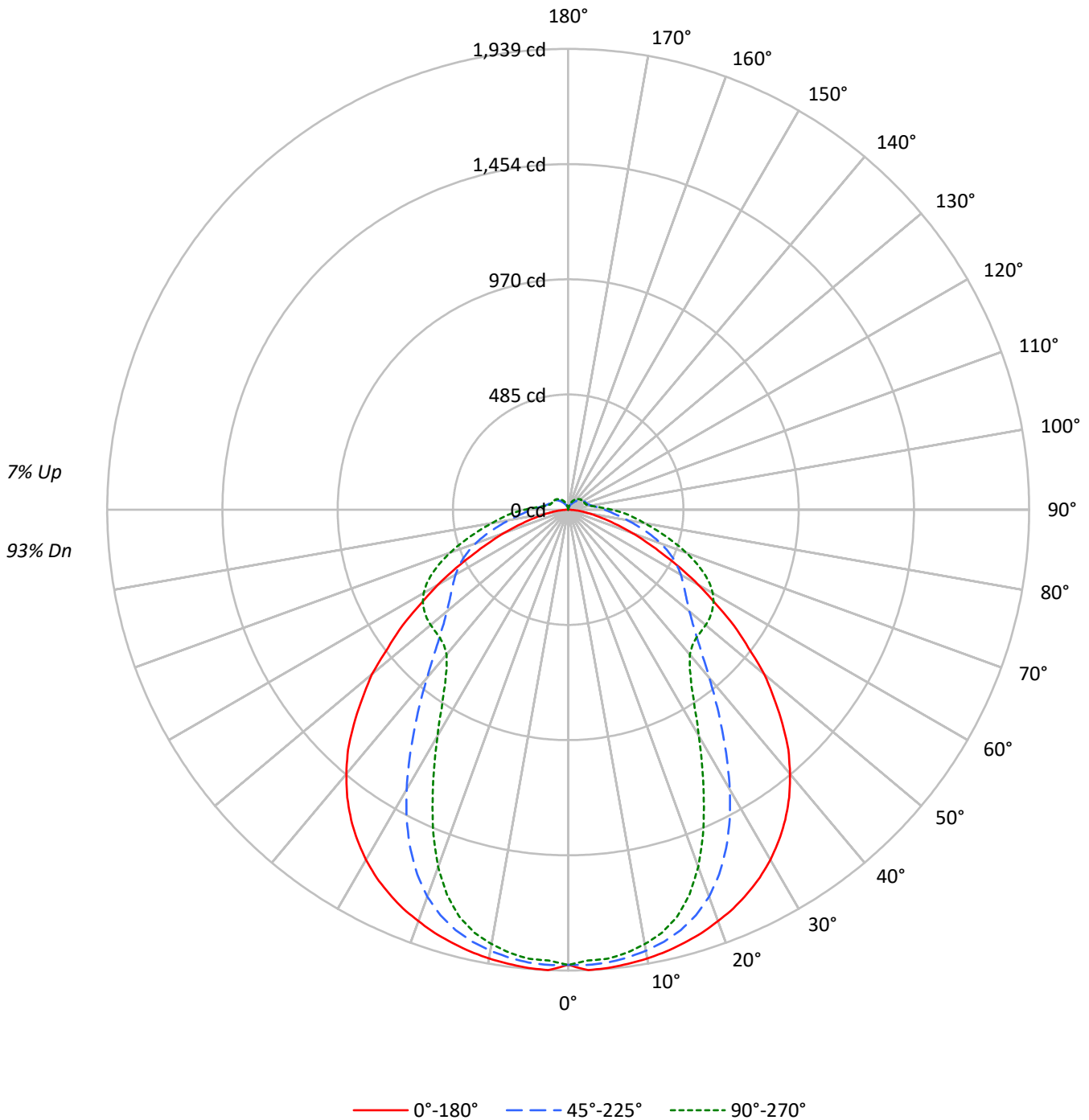
Lumens per Lamp: N/A  
Luminaire Lumens: 4816.0 lumens  
Efficiency: N/A  
Efficacy: 133.8 lumens/watt  
Spacing Criteria (0/90/45): 1.31 / 0.96 / 1.11  
Luminous Opening: Rectangular w/ Sides (W: 0.33' x L: 2' x H: 0.12')  
CIE Type: Direct

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°	30950	30950	30950
5°	31222	30210	29793
10°	31126	29321	28567
15°	31049	28290	26938
20°	30973	26784	24193
25°	30890	24498	20487
30°	30641	21517	16851
35°	30095	18272	14121
40°	29098	15442	12765
45°	27428	13392	12670
50°	25200	12214	13114
55°	22045	11707	13573
60°	18448	11505	13759
65°	14679	11209	13331
70°	11615	10584	12294
75°	8552	9522	10911
80°	6061	8487	9703
85°	3688	7922	8927



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	181.2	3.8
10°-20°	512.1	10.6
20°-30°	715.9	14.9
30°-40°	742.5	15.4
40°-50°	686.0	14.2
50°-60°	612.5	12.7
60°-70°	496.4	10.3
70°-80°	330.1	6.9
80°-90°	189.0	3.9
90°-100°	104.6	2.2
100°-110°	70.8	1.5
110°-120°	59.0	1.2
120°-130°	47.9	1.0
130°-140°	34.6	0.7
140°-150°	20.9	0.4
150°-160°	10.0	0.2
160°-170°	2.6	0.1
170°-180°	0.0	0.0
0°-30°	1409.1	29.3
0°-40°	2151.7	44.7
0°-60°	3450.1	71.6
0°-90°	4465.6	92.7
90°-120°	234.4	4.9
90°-150°	337.7	7.0
90°-180°	350.0	7.3
0°-180°	4816.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	1915	1915	1915	1915	1915	
5°	1935	1903	1912	1899	1897	184
15°	1887	1847	1831	1789	1772	533
25°	1783	1704	1572	1407	1350	821
35°	1592	1417	1127	946	904	993
45°	1275	1010	767	740	762	980
55°	852	644	599	697	740	758
65°	435	390	488	598	629	440
75°	169	211	329	403	420	185
85°	34	98	194	248	255	39
90°	2	69	153	185	183	3
95°	2	58	122	130	126	1
105°	1	51	87	85	81	1
115°	1	46	77	77	74	1
125°	1	39	68	72	70	1
135°	2	29	54	63	63	1
145°	2	18	38	49	52	1
155°	2	12	23	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°	1915.0	1915.0	1915.0	1915.0	1915.0
2.5°	1939.2	1907.5	1917.5	1909.2	1898.4
5°	1935.0	1902.6	1912.5	1899.2	1896.7
7.5°	1927.5	1895.1	1900.9	1885.1	1880.9
10°	1917.5	1883.4	1884.2	1861.8	1855.9
12.5°	1904.2	1866.8	1861.8	1831.0	1822.7
15°	1886.7	1846.8	1831.0	1789.4	1771.9
17.5°	1867.6	1821.0	1788.5	1724.4	1697.0
20°	1841.8	1789.4	1732.8	1635.4	1598.8
22.5°	1816.0	1751.1	1660.4	1530.5	1481.4
25°	1782.7	1703.6	1572.1	1407.4	1349.9
27.5°	1745.3	1647.9	1470.6	1280.9	1219.3
30°	1701.1	1580.5	1359.1	1156.8	1098.6
32.5°	1649.5	1504.7	1241.7	1045.3	991.2
35°	1592.1	1417.3	1126.9	946.3	903.8
37.5°	1526.4	1321.6	1020.4	866.4	838.9
40°	1451.5	1217.6	922.1	804.8	795.6
42.5°	1370.7	1116.1	838.1	764.8	773.2
45°	1275.0	1010.4	767.3	739.9	762.4
47.5°	1174.3	907.2	709.9	725.7	758.2
50°	1076.9	811.5	665.0	716.6	754.9
52.5°	956.3	725.7	629.2	708.3	749.9
55°	852.2	644.2	599.2	696.6	739.9
57.5°	732.4	570.9	572.6	681.6	724.9
60°	632.5	504.4	546.8	660.8	702.4
62.5°	531.0	444.4	518.5	633.4	670.8
65°	435.3	389.5	487.7	597.6	629.2
67.5°	355.4	339.6	452.8	554.3	580.9
70°	288.0	293.8	414.5	506.0	528.5
72.5°	221.4	251.3	372.9	454.4	473.6
75°	168.9	211.4	328.7	402.8	419.5
77.5°	124.8	176.4	288.8	356.2	370.4
80°	88.2	145.6	251.3	315.4	326.2
82.5°	59.1	119.8	220.5	278.8	288.8
85°	34.1	98.2	193.9	248.0	254.7
87.5°	14.1	81.6	172.3	216.4	219.7
90°	1.7	69.1	153.1	184.8	183.1
92.5°	1.7	62.4	136.5	154.8	150.6
95°	1.7	58.3	121.5	129.8	125.7
97.5°	1.7	55.8	108.2	111.5	107.4
100°	0.8	54.1	99.0	99.0	94.9
102.5°	0.8	52.4	92.4	89.9	86.6
105°	0.8	50.8	87.4	84.9	80.7
107.5°	0.8	49.9	84.1	81.6	77.4
110°	0.8	48.3	81.6	79.1	75.7



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**CANDELA DISTRIBUTION (continued):**

	0°	22.5°	45°	67.5°	90°
112.5°	0.8	47.4	79.9	78.2	74.1
115°	0.8	45.8	77.4	76.6	74.1
117.5°	0.8	44.1	75.7	75.7	73.2
120°	0.8	42.4	73.2	74.9	72.4
122.5°	0.8	40.8	70.7	73.2	70.7
125°	0.8	39.1	68.2	71.6	69.9
127.5°	1.7	36.6	64.9	69.9	68.2
130°	0.8	34.1	61.6	68.2	67.4
132.5°	1.7	31.6	58.3	65.7	65.7
135°	1.7	29.1	54.1	63.3	63.3
137.5°	1.7	25.8	49.9	59.9	60.8
140°	1.7	23.3	45.8	56.6	58.3
142.5°	1.7	20.8	41.6	53.3	55.8
145°	1.7	18.3	37.5	49.1	52.4
147.5°	1.7	16.6	33.3	44.1	49.1
150°	1.7	14.1	30.0	39.9	44.9
152.5°	1.7	12.5	26.6	35.8	41.6
155°	1.7	11.7	23.3	30.8	37.5
157.5°	1.7	10.0	20.0	26.6	33.3
160°	1.7	8.3	16.6	23.3	28.3
162.5°	1.7	7.5	14.1	19.1	25.0
165°	1.7	6.7	11.7	15.0	20.0
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)