

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: **4SNLED-LD5-60HL-SLN-UNV-L850-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: 4SNLED-LD5-60HL-SLN-UNV-L850-CD1-U
Description: 4FT LINEAR SNLED LED FIXTURE
SQUARE NARROW LENS
Light Source: -
Ballast/Driver: -

Summary

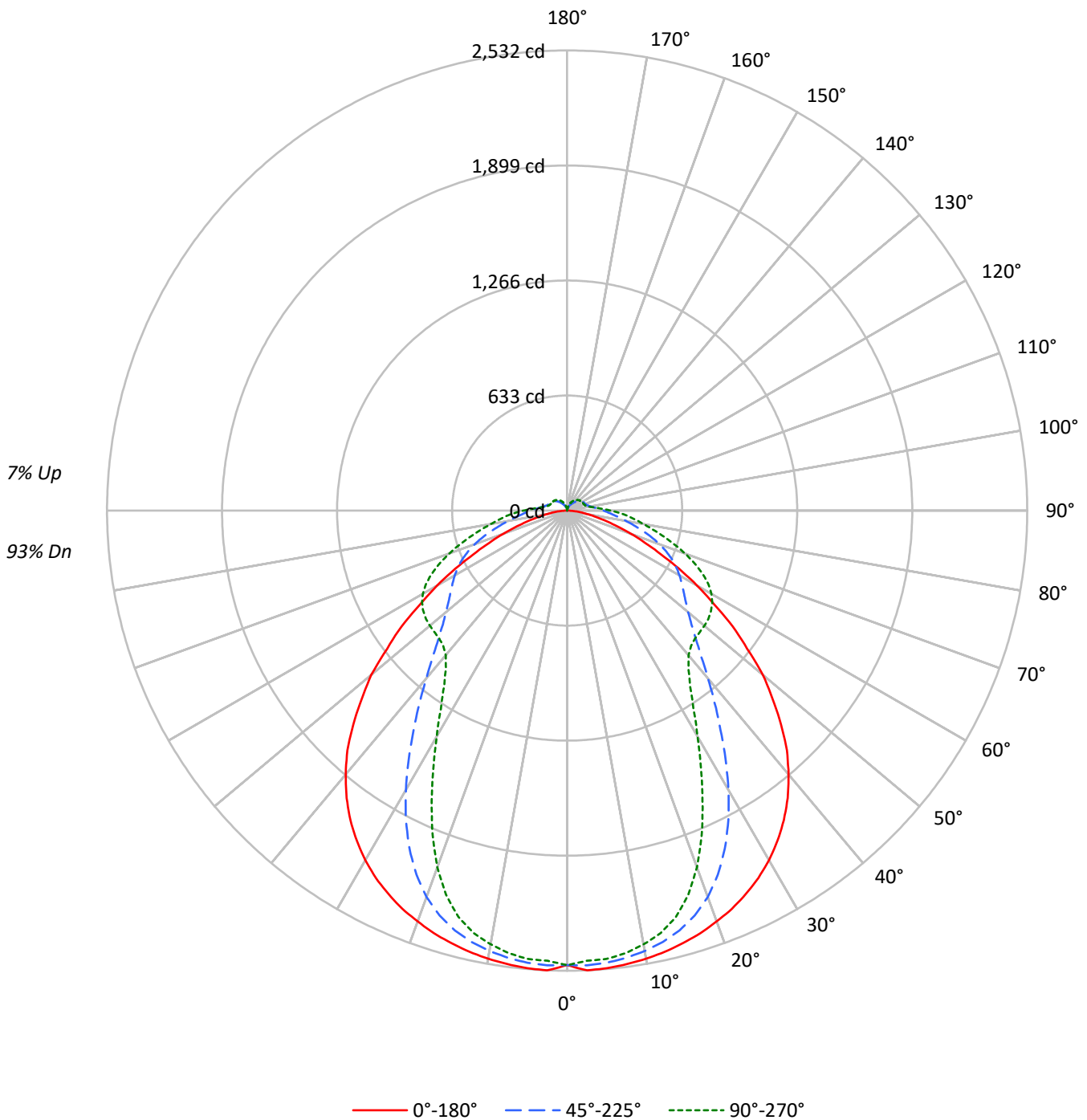
Lumens per Lamp: N/A
Luminaire Lumens: 6289.0 lumens
Efficiency: N/A
Efficacy: 146.3 lumens/watt
Spacing Criteria (0/90/45): 1.31 / 0.96 / 1.11
Luminous Opening: Rectangular w/ Sides (W: 0.33' x L: 4' x H: 0.12')
CIE Type: Direct

Input Watts (W): 43
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°	20209	20209	20209
5°	20441	19762	19453
10°	20434	19216	18653
15°	20441	18572	17588
20°	20450	17615	15796
25°	20459	16141	13376
30°	20361	14203	11002
35°	20071	12084	9220
40°	19484	10234	8335
45°	18451	8894	8272
50°	17045	8131	8562
55°	15010	7815	8862
60°	12664	7703	8984
65°	10186	7533	8704
70°	8181	7144	8027
75°	6168	6466	7124
80°	4554	5806	6336
85°	3047	5477	5829



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	236.6	3.8
10°-20°	668.7	10.6
20°-30°	934.8	14.9
30°-40°	969.6	15.4
40°-50°	895.8	14.2
50°-60°	799.8	12.7
60°-70°	648.1	10.3
70°-80°	431.1	6.9
80°-90°	246.9	3.9
90°-100°	136.6	2.2
100°-110°	92.5	1.5
110°-120°	77.0	1.2
120°-130°	62.6	1.0
130°-140°	45.2	0.7
140°-150°	27.2	0.4
150°-160°	13.1	0.2
160°-170°	3.4	0.1
170°-180°	0.0	0.0
0°-30°	1840.1	29.3
0°-40°	2809.8	44.7
0°-60°	4505.3	71.6
0°-90°	5831.5	92.7
90°-120°	306.1	4.9
90°-150°	441.1	7.0
90°-180°	458.0	7.3
0°-180°	6289.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2501	2501	2501	2501	2501	
5°	2527	2484	2498	2480	2477	240
15°	2464	2412	2391	2337	2314	696
25°	2328	2225	2053	1838	1763	1073
35°	2079	1851	1472	1236	1180	1297
45°	1665	1319	1002	966	996	1280
55°	1113	841	782	910	966	990
65°	568	509	637	780	822	575
75°	221	276	429	526	548	242
85°	45	128	253	324	333	51
90°	2	90	200	241	239	3
95°	2	76	159	170	164	2
105°	1	66	114	111	105	1
115°	1	60	101	100	97	1
125°	1	51	89	94	91	1
135°	2	38	71	83	83	2
145°	2	24	49	64	68	1
155°	2	15	30	40	49	1
165°	2	9	15	20	26	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°	2500.8	2500.8	2500.8	2500.8	2500.8
2.5°	2532.3	2491.0	2504.0	2493.2	2479.0
5°	2526.8	2484.5	2497.5	2480.1	2476.8
7.5°	2517.1	2474.7	2482.3	2461.6	2456.2
10°	2504.0	2459.5	2460.5	2431.2	2423.6
12.5°	2486.6	2437.7	2431.2	2391.0	2380.1
15°	2463.8	2411.6	2391.0	2336.6	2313.8
17.5°	2438.8	2377.9	2335.6	2251.9	2216.0
20°	2405.1	2336.6	2262.7	2135.6	2087.8
22.5°	2371.4	2286.7	2168.2	1998.7	1934.5
25°	2328.0	2224.7	2053.0	1837.8	1762.8
27.5°	2279.0	2151.9	1920.4	1672.6	1592.2
30°	2221.4	2063.9	1774.8	1510.7	1434.6
32.5°	2154.1	1965.0	1621.5	1365.0	1294.4
35°	2079.1	1850.8	1471.5	1235.7	1180.3
37.5°	1993.2	1725.9	1332.4	1131.4	1095.5
40°	1895.4	1590.0	1204.2	1050.9	1039.0
42.5°	1790.0	1457.4	1094.4	998.8	1009.6
45°	1665.0	1319.4	1002.0	966.2	995.5
47.5°	1533.5	1184.6	927.1	947.7	990.1
50°	1406.3	1059.6	868.4	935.7	985.7
52.5°	1248.7	947.7	821.6	924.9	979.2
55°	1112.9	841.2	782.5	909.7	966.2
57.5°	956.4	745.6	747.7	890.1	946.6
60°	826.0	658.6	714.0	862.9	917.3
62.5°	693.4	580.4	677.1	827.1	876.0
65°	568.4	508.6	636.9	780.3	821.6
67.5°	464.1	443.4	591.2	723.8	758.6
70°	376.0	383.6	541.2	660.8	690.1
72.5°	289.1	328.2	486.9	593.4	618.4
75°	220.6	276.1	429.3	526.0	547.8
77.5°	163.0	230.4	377.1	465.2	483.6
80°	115.2	190.2	328.2	411.9	426.0
82.5°	77.2	156.5	288.0	364.1	377.1
85°	44.6	128.2	253.2	323.9	332.6
87.5°	18.5	106.5	225.0	282.6	286.9
90°	2.2	90.2	200.0	241.3	239.1
92.5°	2.2	81.5	178.2	202.1	196.7
95°	2.2	76.1	158.7	169.5	164.1
97.5°	2.2	72.8	141.3	145.6	140.2
100°	1.1	70.6	129.3	129.3	123.9
102.5°	1.1	68.5	120.6	117.4	113.0
105°	1.1	66.3	114.1	110.9	105.4
107.5°	1.1	65.2	109.8	106.5	101.1
110°	1.1	63.0	106.5	103.2	98.9



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	1.1	61.9	104.3	102.2	96.7
115°	1.1	59.8	101.1	100.0	96.7
117.5°	1.1	57.6	98.9	98.9	95.6
120°	1.1	55.4	95.6	97.8	94.6
122.5°	1.1	53.3	92.4	95.6	92.4
125°	1.1	51.1	89.1	93.5	91.3
127.5°	2.2	47.8	84.8	91.3	89.1
130°	1.1	44.6	80.4	89.1	88.0
132.5°	2.2	41.3	76.1	85.9	85.9
135°	2.2	38.0	70.6	82.6	82.6
137.5°	2.2	33.7	65.2	78.3	79.3
140°	2.2	30.4	59.8	73.9	76.1
142.5°	2.2	27.2	54.3	69.6	72.8
145°	2.2	23.9	48.9	64.1	68.5
147.5°	2.2	21.7	43.5	57.6	64.1
150°	2.2	18.5	39.1	52.2	58.7
152.5°	2.2	16.3	34.8	46.7	54.3
155°	2.2	15.2	30.4	40.2	48.9
157.5°	2.2	13.0	26.1	34.8	43.5
160°	2.2	10.9	21.7	30.4	37.0
162.5°	2.2	9.8	18.5	25.0	32.6
165°	2.2	8.7	15.2	19.6	26.1
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)