

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: P290283

Luminaire Tested: **4SSRK-SLC-40-L850-CD1-U**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P290283
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1901-078-16)
Test Lab: INNOVATION CENTER(G3)
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 4SSRK-SLC-40-L850-CD1-U
Description: 4000 LUMEN, 4 FOOT SSRK LED LUMINAIRE WITH SQUARE CLEAR LENS AND 80 CRI 5000K CCT LEDS
Light Source: -
Ballast/Driver: -

Summary

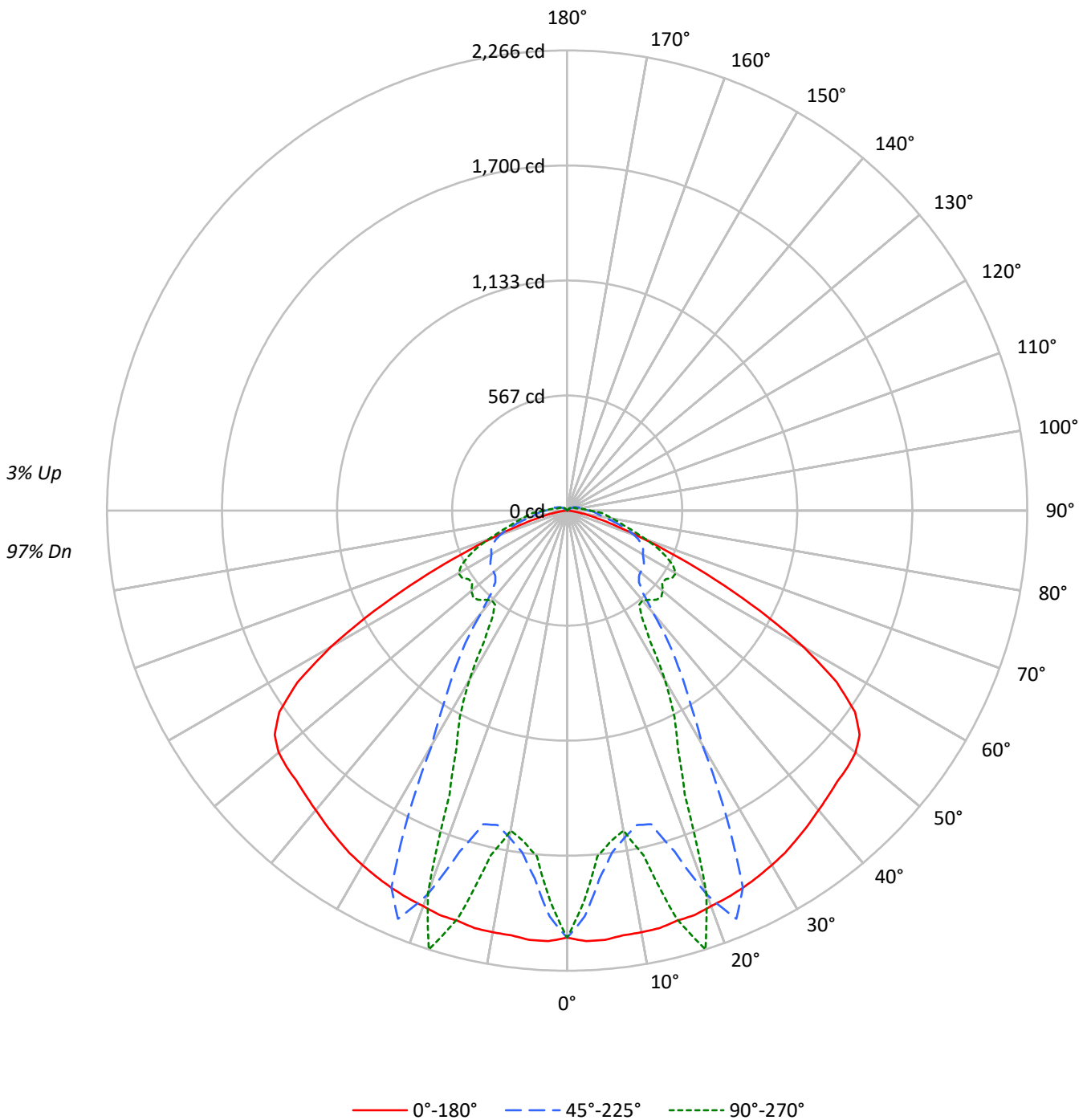
Lumens per Lamp: N/A
Luminaire Lumens: 4422.7 lumens
Efficiency: N/A
Efficacy: 159.7 lumens/watt
Spacing Criteria (0/90/45): 1.44 / 0.89 / 0.98
Luminous Opening: Rectangular w/ Sides (W: 0.04' x L: 4' x H: 0.17')
CIE Type: Direct

Input Watts (W): 27.7
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



TEST NUMBER: P290283
CATALOG NUMBER: 4SSRK-SLC-40-L850-CD1-U

Luminous Intensity Polar Plot





TEST NUMBER: P290283

CATALOG NUMBER: 4SSRK-SLC-40-L850-CD1-U

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	118	118	118	118	115	115	115	115	109	109	109	104	104	104	99	99	99	99	99	99	97	
1	108	103	99	95	105	101	97	93	96	93	90	91	89	87	87	85	83	87	85	83	81	
2	99	91	84	79	96	89	83	78	85	80	75	81	77	73	77	74	71	77	74	71	69	
3	91	81	73	67	88	79	72	66	75	69	64	72	67	63	69	65	61	69	65	61	59	
4	84	72	64	57	81	71	63	57	68	61	56	65	59	54	62	57	53	62	57	53	51	
5	77	65	56	50	75	64	56	50	61	54	49	59	53	48	57	51	47	57	51	47	45	
6	72	59	50	44	70	58	50	44	56	49	43	54	47	43	52	46	42	52	46	42	40	
7	67	54	45	40	65	53	45	39	51	44	39	49	43	38	48	42	38	48	42	38	36	
8	62	49	41	36	61	49	41	35	47	40	35	46	39	35	44	38	34	44	38	34	32	
9	58	46	38	32	57	45	37	32	44	37	32	42	36	32	41	35	31	41	35	31	29	
10	55	42	35	30	54	42	34	30	40	34	29	39	33	29	38	33	29	38	33	29	27	

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	135837	135837	135837
5°	137075	94379	82101
10°	137252	71256	61530
15°	138230	60547	67081
20°	140324	67826	56068
25°	143228	62549	32028
30°	146766	37450	21694
35°	151175	25501	13280
40°	156849	16397	11166
45°	165191	11859	11351
50°	177456	10745	10706
55°	183895	10235	9902
60°	161986	9339	10060
65°	112534	8789	8606
70°	64689	7470	6473
75°	36171	5643	4604
80°	19915	3983	3560
85°	8935	3196	2915



TEST NUMBER: P290283

CATALOG NUMBER: 4SSRK-SLC-40-L850-CD1-U

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	174.7	4.0
10°-20°	524.8	11.9
20°-30°	772.5	17.5
30°-40°	754.6	17.1
40°-50°	625.6	14.1
50°-60°	574.3	13.0
60°-70°	455.1	10.3
70°-80°	252.7	5.7
80°-90°	133.8	3.0
90°-100°	70.4	1.6
100°-110°	42.4	1.0
110°-120°	24.2	0.5
120°-130°	13.4	0.3
130°-140°	4.2	0.1
140°-150°	0.1	0.0
150°-160°	0.0	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-30°	1472.0	33.3
0°-40°	2226.6	50.3
0°-60°	3426.5	77.5
0°-90°	4268.1	96.5
90°-120°	136.9	3.1
90°-150°	154.6	3.5
90°-180°	155.0	3.5
0°-180°	4422.7	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2103	2103	2103	2103	2103	
5°	2122	2003	1820	1742	1710	202
15°	2090	1670	1599	1958	2079	593
25°	2049	1594	2048	1396	1288	947
35°	1973	1903	971	694	640	1238
45°	1884	860	501	572	621	1461
55°	1730	383	462	553	590	1503
65°	802	249	410	520	539	812
75°	168	152	264	282	294	198
85°	18	75	145	176	184	24
90°	0	54	106	116	115	1
95°	1	43	82	86	82	1
105°	1	29	58	50	45	1
115°	1	4	38	36	33	1
125°	1	1	17	28	27	1
135°	1	1	1	12	15	1
145°	0	0	0	0	0	0
155°	0	0	0	0	0	0
165°	0	0	0	0	0	0
175°	0	0	0	0	0	0
180°	0	0	0	0	0	0



TEST NUMBER: P290283

CATALOG NUMBER: 4SSRK-SLC-40-L850-CD1-U

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2103.3	2103.3	2103.3	2103.3	2103.3
2.5°	2122.1	2084.1	1999.6	1942.3	1923.0
5°	2122.1	2003.0	1819.8	1742.2	1709.6
7.5°	2109.3	1900.3	1696.8	1663.2	1642.0
10°	2108.3	1790.6	1634.1	1605.9	1600.0
12.5°	2105.8	1729.9	1585.6	1685.4	1739.3
15°	2090.5	1669.6	1599.0	1958.1	2078.6
17.5°	2088.0	1624.7	1761.0	2215.5	2266.3
20°	2072.7	1589.1	2013.4	2182.9	2003.5
22.5°	2062.8	1564.4	2175.9	1756.1	1512.0
25°	2049.0	1594.0	2047.5	1396.0	1287.8
27.5°	2033.2	1689.4	1697.3	1215.2	1143.5
30°	2015.4	1838.6	1330.8	1062.0	962.7
32.5°	1997.6	1947.7	1132.7	871.9	755.3
35°	1973.4	1902.8	970.7	693.5	640.2
37.5°	1950.7	1695.3	823.0	598.7	583.4
40°	1925.5	1365.8	660.9	561.1	577.0
42.5°	1904.3	1082.8	555.2	557.2	596.2
45°	1884.0	860.5	500.9	571.5	621.4
47.5°	1872.1	684.1	479.2	588.8	628.8
50°	1853.9	548.3	471.2	592.3	614.5
52.5°	1815.3	452.0	468.8	574.0	589.3
55°	1730.4	383.3	461.9	553.2	590.3
57.5°	1573.8	340.8	446.1	557.7	614.5
60°	1344.6	307.7	430.2	572.0	617.5
62.5°	1069.9	277.6	421.9	560.2	588.3
65°	802.2	249.0	410.0	520.2	539.4
67.5°	561.6	224.3	383.3	470.3	480.6
70°	381.8	200.6	350.2	406.5	411.0
72.5°	256.9	176.8	309.2	340.8	347.8
75°	167.5	151.6	263.8	281.6	293.9
77.5°	106.7	128.9	218.8	241.6	257.4
80°	66.2	106.7	184.3	216.9	226.7
82.5°	37.0	88.9	159.6	193.6	199.1
85°	17.8	74.6	145.2	176.3	183.8
87.5°	4.4	63.2	127.9	146.2	146.2
90°	0.5	54.3	106.2	116.1	115.1
92.5°	0.5	47.9	92.4	98.8	96.8
95°	1.0	43.0	82.5	86.0	82.0
97.5°	1.0	40.5	76.1	73.6	67.7
100°	1.0	37.5	69.2	62.7	56.3
102.5°	1.0	33.6	63.2	55.3	49.9
105°	1.0	28.7	57.8	49.9	45.0
107.5°	1.0	22.7	51.9	45.4	41.5
110°	1.0	16.3	46.4	42.0	39.0



TEST NUMBER: P290283

CATALOG NUMBER: 4SSRK-SLC-40-L850-CD1-U

CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	1.0	9.9	42.0	39.0	36.6
115°	1.0	3.5	37.5	35.6	33.1
117.5°	1.0	1.5	33.1	34.1	31.1
120°	1.0	1.5	27.7	32.1	29.6
122.5°	1.0	1.5	22.7	30.1	28.7
125°	1.0	1.0	17.3	27.7	27.2
127.5°	1.0	1.0	11.9	24.2	25.2
130°	1.0	1.0	5.9	19.8	22.2
132.5°	1.0	1.0	1.0	16.3	18.3
135°	1.0	1.0	1.0	11.9	14.8
137.5°	1.0	1.0	1.0	5.9	10.9
140°	1.0	1.0	1.0	1.0	4.4
142.5°	0.0	0.0	0.0	0.0	0.0
145°	0.0	0.0	0.0	0.0	0.0
147.5°	0.0	0.0	0.0	0.0	0.0
150°	0.0	0.0	0.0	0.0	0.0
152.5°	0.0	0.0	0.0	0.0	0.0
155°	0.0	0.0	0.0	0.0	0.0
157.5°	0.0	0.0	0.0	0.0	0.0
160°	0.0	0.0	0.0	0.0	0.0
162.5°	0.0	0.0	0.0	0.0	0.0
165°	0.0	0.0	0.0	0.0	0.0
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)