

Scaled data based on original data using
LM-79-2019 Approved Method: Electrical and Photometric Measurements of Solid-
State Lighting Products

Test Report Prepared for

Cooper Lighting Solutions

(formerly Eaton)

Brand: CORELITE

Report Number: P518977

Luminaire Tested: **SQ4-WB-025U-050D-835-1D-UNV-STD-W-6**

Issue Date: 4/29/2021

Test Information

Test Method: LM-79-2019
Report Number: P518977
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1910-536-32, G2-2009-966-13)
Test Lab: INNOVATION CENTER
Issue Date: 4/29/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: CORELITE
Catalog Number: SQ4-WB-025U-050D-835-1D-UNV-STD-W-6
Description: CORELITE SQ4 SUSPENDED LED LUMINAIRE WITH WHITE BAFFLE
DOWNLIGHT 500 LUMENS PER FOOT
UPLIGHT 250 LUMENS PER FOOT
Light Source: 3500K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

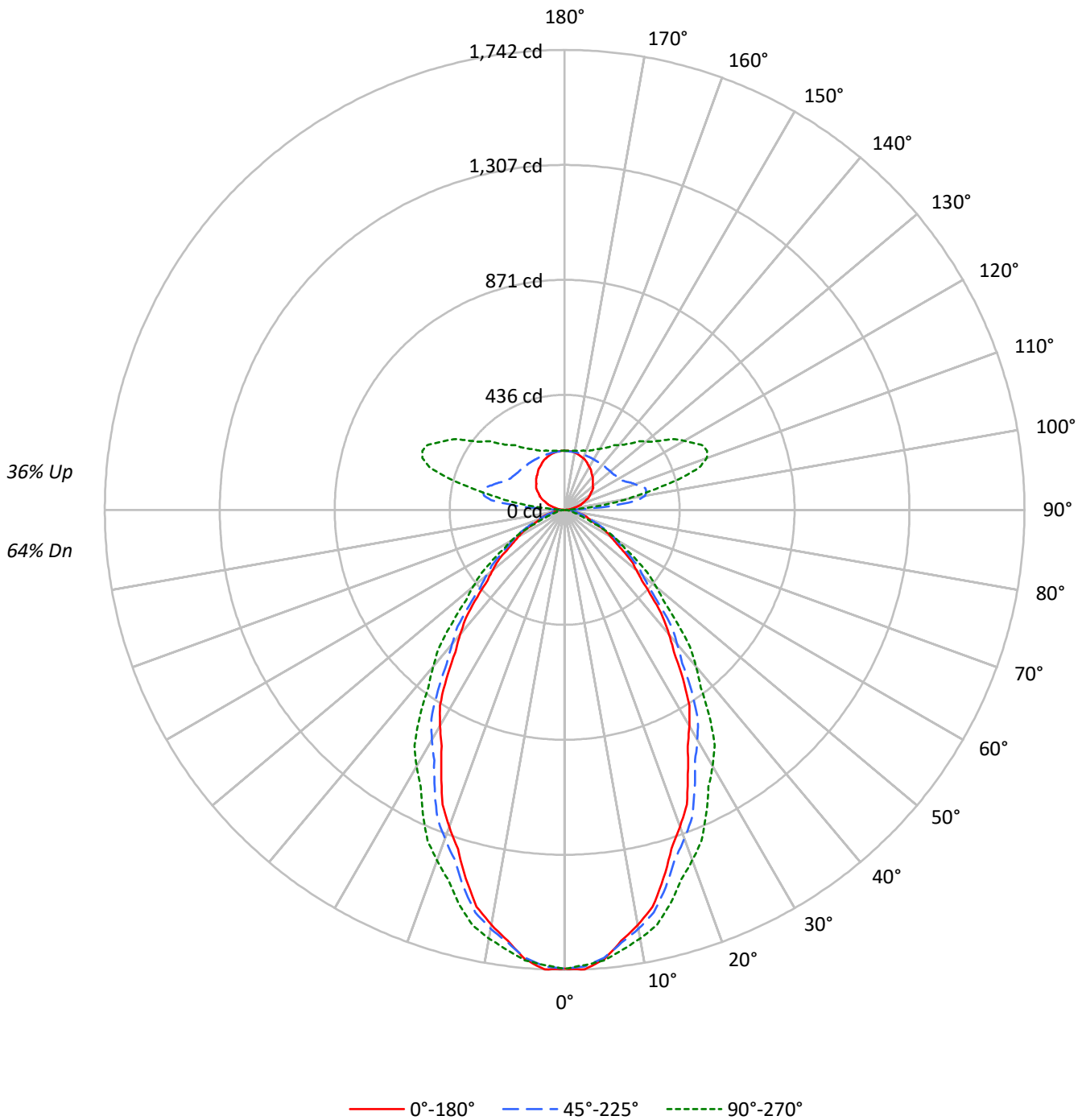
Lumens per Lamp: N/A
Luminaire Lumens: 3982.5 lumens
Efficiency: N/A
Efficacy: 114.1 lumens/watt
Spacing Criteria (0/90/45): 0.89 / 1 / 1.02
Luminous Opening: Rectangular (W 0.29' x L: 6' x H: 0')
CIE Type: Semi-Direct

Input Watts (W): 34.9
Input Voltage (V): 120
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: 24 FT



TEST NUMBER: P518977
CATALOG NUMBER: SQ4-WB-025U-050D-835-1D-UNV-STD-W-6

Luminous Intensity Polar Plot





TEST NUMBER: P518977

CATALOG NUMBER: SQ4-WB-025U-050D-835-1D-UNV-STD-W-6

COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

RF	20					20					20					20				
RC	80					70					50					30				
RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10	0		
RCR																				
0	110	110	110	110	104	104	104	104	91	91	91	79	79	79	69	69	69	64		
1	102	98	95	92	96	93	90	87	82	80	78	72	70	69	63	62	61	56		
2	94	88	82	78	89	83	78	74	74	70	67	65	62	60	57	55	54	50		
3	87	79	72	67	82	74	68	64	66	62	58	59	56	53	52	50	47	44		
4	81	71	63	58	76	67	61	56	60	55	51	54	50	47	48	45	42	39		
5	75	64	56	51	70	61	54	49	55	49	45	49	45	41	44	41	38	35		
6	69	58	51	45	65	55	48	44	50	44	40	45	41	37	40	37	34	32		
7	65	53	46	40	61	51	44	39	46	40	36	42	37	34	37	34	31	29		
8	60	49	41	36	57	47	40	35	42	37	33	38	34	31	35	31	28	26		
9	57	45	38	33	53	43	37	32	39	34	30	36	31	28	32	29	26	24		
10	53	42	35	30	50	40	34	29	37	31	28	33	29	26	30	27	24	22		

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	10689	10689	10689
5°	10556	10519	10580
10°	9973	10064	10297
15°	9207	9420	9843
20°	8361	8675	9250
25°	7499	7908	8617
30°	6705	7144	7962
35°	5864	6287	7186
40°	4935	5327	6221
45°	4073	4424	5194
50°	3401	3707	4327
55°	2887	3181	3573
60°	2468	2758	2852
65°	1965	2320	1843
70°	1741	1811	1124
75°	1614	1469	689
80°	1484	1350	595
85°	1348	1235	487



TEST NUMBER: P518977

CATALOG NUMBER: SQ4-WB-025U-050D-835-1D-UNV-STD-W-6

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	159.4	4.0
10°-20°	414.6	10.4
20°-30°	537.1	13.5
30°-40°	525.9	13.2
40°-50°	402.6	10.1
50°-60°	268.3	6.7
60°-70°	146.4	3.7
70°-80°	61.0	1.5
80°-90°	18.5	0.5
90°-100°	108.9	2.7
100°-110°	286.4	7.2
110°-120°	297.0	7.5
120°-130°	238.2	6.0
130°-140°	186.9	4.7
140°-150°	143.5	3.6
150°-160°	103.3	2.6
160°-170°	63.2	1.6
170°-180°	21.4	0.5
0°-30°	1111.1	27.9
0°-40°	1637.0	41.1
0°-60°	2307.8	57.9
0°-90°	2533.7	63.6
90°-120°	692.3	17.4
90°-150°	1261.0	31.7
90°-180°	1449.0	36.4
0°-180°	3982.5	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1738	1738	1738	1738	1738	
5°	1710	1692	1704	1708	1714	159
15°	1446	1441	1479	1520	1546	404
25°	1105	1108	1165	1216	1270	508
35°	781	785	837	894	957	485
45°	468	477	509	547	597	365
55°	269	280	297	308	333	244
65°	135	146	159	139	127	140
75°	68	68	62	42	29	72
85°	19	19	18	11	7	21
90°	1	4	12	6	6	2
95°	14	56	188	97	66	16
105°	52	78	317	481	448	55
115°	92	111	254	506	578	91
125°	128	143	231	390	460	113
135°	152	167	224	315	357	118
145°	176	188	221	268	290	110
155°	199	205	221	242	249	92
165°	215	218	221	229	232	61
175°	224	224	222	225	225	21
180°	224	224	224	224	224	

TEST NUMBER: P518977

CATALOG NUMBER: SQ4-WB-025U-050D-835-1D-UNV-STD-W-6

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1737.9	1737.9	1737.9	1737.9	1737.9
2.5°	1742.2	1726.7	1730.6	1730.5	1725.7
5°	1709.7	1692.5	1703.6	1707.5	1713.5
7.5°	1646.2	1633.3	1653.4	1668.3	1680.4
10°	1596.8	1585.6	1611.3	1633.0	1648.7
12.5°	1539.5	1530.1	1561.9	1591.0	1611.5
15°	1445.8	1440.6	1479.4	1519.6	1545.7
17.5°	1345.6	1343.1	1387.6	1434.6	1468.0
20°	1277.3	1276.6	1325.4	1374.3	1413.1
22.5°	1208.4	1210.0	1261.3	1312.2	1356.3
25°	1105.0	1108.0	1165.2	1216.0	1269.7
27.5°	1009.3	1010.7	1069.9	1123.5	1180.8
30°	944.1	947.8	1005.8	1061.3	1121.0
32.5°	878.8	883.1	940.0	997.3	1058.2
35°	780.9	784.6	837.3	893.7	957.0
37.5°	679.9	685.0	731.8	785.0	847.4
40°	614.6	622.1	663.4	713.6	774.8
42.5°	551.8	561.0	599.4	647.0	702.2
45°	468.2	477.2	508.6	547.1	597.1
47.5°	396.2	406.5	430.7	463.9	506.5
50°	355.4	365.1	387.4	411.9	452.2
52.5°	319.4	329.1	349.0	367.9	402.2
55°	269.2	280.4	296.6	307.9	333.2
57.5°	228.0	238.7	251.7	256.7	272.1
60°	200.6	212.5	224.2	223.6	231.8
62.5°	175.5	185.7	197.4	189.3	189.7
65°	135.0	146.2	159.4	139.3	126.6
67.5°	109.0	111.4	125.1	97.1	82.1
70°	96.8	96.8	100.7	75.2	62.5
72.5°	85.3	85.3	81.7	61.2	47.9
75°	67.9	67.9	61.8	42.4	29.0
77.5°	52.3	51.7	47.3	31.6	21.0
80°	41.9	41.9	38.1	25.0	16.8
82.5°	32.8	32.8	29.6	19.5	12.5
85°	19.1	19.1	17.5	11.3	6.9
87.5°	7.0	7.6	8.4	4.8	4.2
90°	1.4	4.2	11.5	5.7	5.7
92.5°	6.0	29.0	64.2	28.4	18.3
95°	14.3	56.4	187.7	96.7	65.9
97.5°	24.9	61.9	280.9	223.3	164.5
100°	33.0	66.6	309.5	313.7	243.6
102.5°	39.8	71.2	317.5	390.7	330.7
105°	51.6	78.2	316.7	480.7	448.5
107.5°	63.6	88.3	298.6	527.5	535.3
110°	71.6	94.1	283.7	539.5	573.2



TEST NUMBER: P518977

CATALOG NUMBER: SQ4-WB-025U-050D-835-1D-UNV-STD-W-6

CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	79.7	101.0	270.0	531.9	583.5
115°	91.7	111.3	253.6	506.0	577.5
117.5°	103.5	121.4	242.5	470.1	549.4
120°	110.3	127.1	237.9	446.0	523.0
122.5°	117.2	134.0	234.4	421.9	497.8
125°	127.5	142.9	230.7	389.9	460.0
127.5°	135.8	151.5	227.5	364.2	423.3
130°	140.4	157.2	226.4	348.0	402.7
132.5°	145.0	161.8	225.3	334.1	383.2
135°	151.9	167.3	223.5	314.8	356.8
137.5°	159.1	174.2	223.3	300.3	334.7
140°	164.8	178.8	222.1	288.8	321.0
142.5°	169.4	182.3	222.1	280.6	308.4
145°	176.3	187.5	220.7	268.4	289.5
147.5°	183.1	194.1	220.7	258.3	275.7
150°	187.7	197.5	220.7	252.5	266.5
152.5°	192.3	199.9	220.7	247.9	258.5
155°	199.2	204.8	220.7	242.3	249.3
157.5°	204.3	209.7	220.7	237.4	242.5
160°	207.8	212.0	220.7	235.1	237.9
162.5°	211.2	214.3	220.7	232.8	235.6
165°	214.9	217.7	220.7	229.3	232.1
167.5°	218.4	219.8	222.1	227.9	229.0
170°	220.7	222.1	222.1	227.8	227.8
172.5°	221.8	222.1	222.1	226.7	225.5
175°	223.5	223.5	222.1	225.0	225.0
177.5°	223.5	223.5	222.4	224.7	223.5
180°	223.5	223.5	223.5	223.5	223.5

(END OF REPORT)