

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: P519009

Luminaire Tested: **SQ4-WB-025U-075D-930-1D-UNV-STD-W-6**

Issue Date: 4/29/2021

Test Information

Test Method: LM-79-2019
Report Number: P519009
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-075D-930-1D-UNV-STD-W-6
Description: CORELITE SQ4 SUSPENDED LED LUMINAIRE WITH WHITE BAFFLE
DOWNLIGHT 750 LUMENS PER FOOT
UPLIGHT 250 LUMENS PER FOOT
Light Source: 3000K CCT, 90 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

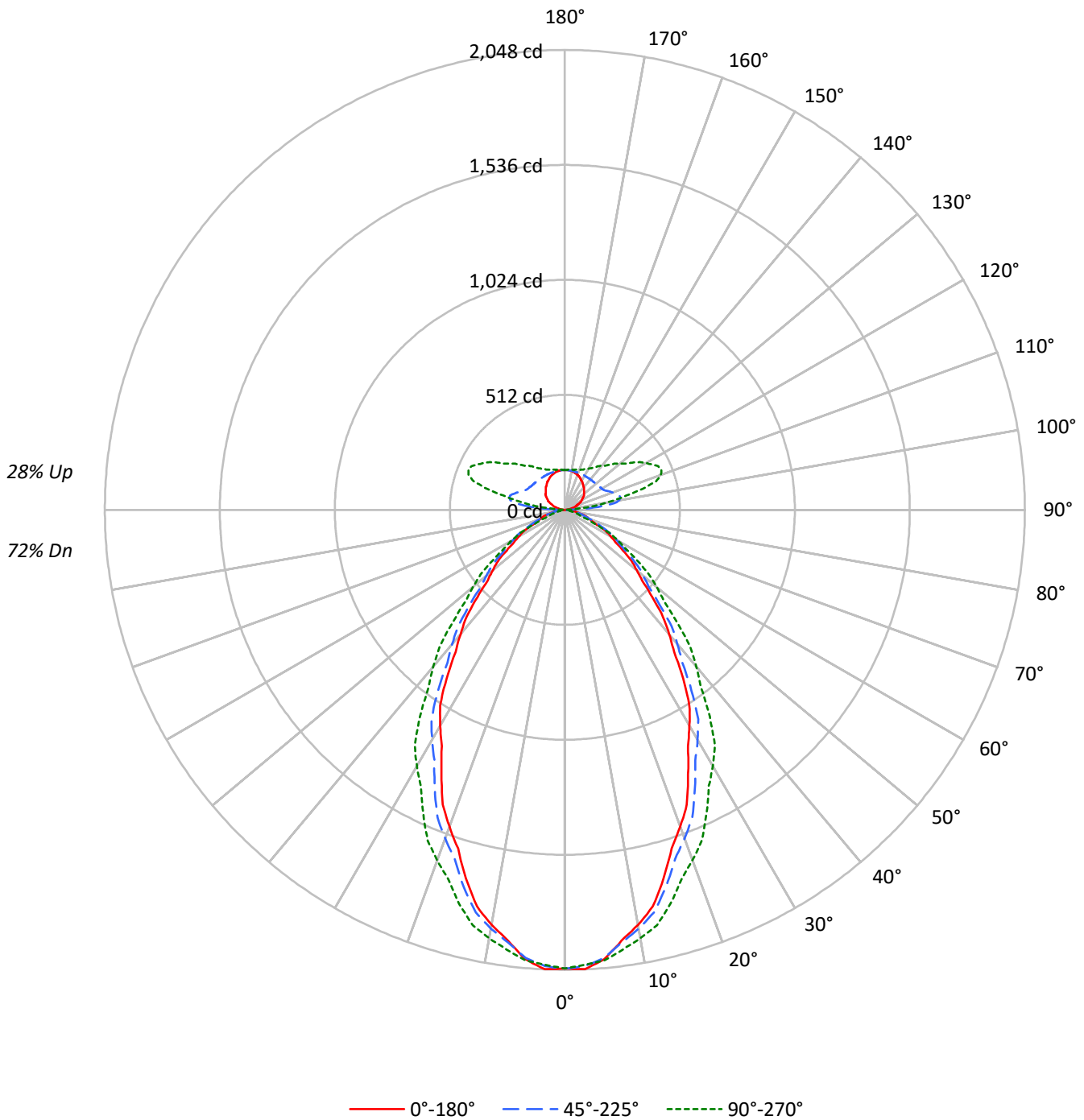
Lumens per Lamp: N/A
Luminaire Lumens: 4130.1 lumens
Efficiency: N/A
Efficacy: 85.0 lumens/watt
Spacing Criteria (0/90/45): 0.89 / 1 / 1.02
Luminous Opening: Rectangular (W 0.29' x L: 6' x H: 0')
CIE Type: Semi-Direct

Input Watts (W): 48.6
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: P519009
CATALOG NUMBER: SQ4-WB-025U-075D-930-1D-UNV-STD-W-6

Luminous Intensity Polar Plot





TEST NUMBER: P519009

CATALOG NUMBER: SQ4-WB-025U-075D-930-1D-UNV-STD-W-6

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	112	112	112	112	107	107	107	107	96	96	96	86	86	86	76	76	76	72
1	104	101	97	94	99	96	93	90	86	84	82	78	76	75	70	69	68	64
2	96	90	84	80	91	86	81	77	78	74	71	70	68	65	64	62	60	56
3	89	81	74	69	85	77	71	66	70	66	62	64	60	57	58	55	53	50
4	83	73	65	60	78	70	63	58	64	58	54	58	54	51	53	50	47	44
5	77	66	58	53	73	63	56	51	58	52	48	53	49	45	49	45	42	40
6	71	60	52	47	68	58	51	46	53	47	43	49	44	41	45	41	38	36
7	67	55	47	42	63	53	46	41	49	43	39	45	40	37	42	38	35	33
8	62	51	43	38	59	49	42	37	45	40	35	42	37	34	39	35	32	30
9	58	47	40	35	56	45	39	34	42	36	32	39	34	31	36	32	29	27
10	55	43	36	32	52	42	35	31	39	34	30	36	32	28	34	30	27	25

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	12562	12562	12562
5°	12406	12362	12434
10°	11721	11827	12102
15°	10820	11071	11568
20°	9826	10195	10870
25°	8813	9294	10127
30°	7880	8396	9357
35°	6891	7389	8445
40°	5800	6260	7311
45°	4787	5200	6104
50°	3996	4357	5085
55°	3393	3738	4199
60°	2899	3241	3351
65°	2308	2726	2166
70°	2047	2127	1322
75°	1896	1725	810
80°	1746	1587	698
85°	1581	1454	572



TEST NUMBER: P519009

CATALOG NUMBER: SQ4-WB-025U-075D-930-1D-UNV-STD-W-6

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	187.3	4.5
10°-20°	487.3	11.8
20°-30°	631.2	15.3
30°-40°	618.1	15.0
40°-50°	473.1	11.5
50°-60°	315.2	7.6
60°-70°	172.0	4.2
70°-80°	71.7	1.7
80°-90°	21.3	0.5
90°-100°	86.7	2.1
100°-110°	227.9	5.5
110°-120°	236.3	5.7
120°-130°	189.6	4.6
130°-140°	148.7	3.6
140°-150°	114.2	2.8
150°-160°	82.2	2.0
160°-170°	50.3	1.2
170°-180°	17.0	0.4
0°-30°	1305.8	31.6
0°-40°	1923.9	46.6
0°-60°	2712.2	65.7
0°-90°	2977.2	72.1
90°-120°	551.0	13.3
90°-150°	1003.4	24.3
90°-180°	1153.0	27.9
0°-180°	4130.1	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2042	2042	2042	2042	2042	
5°	2009	1989	2002	2007	2014	187
15°	1699	1693	1739	1786	1817	475
25°	1299	1302	1369	1429	1492	597
35°	918	922	984	1050	1125	571
45°	550	561	598	643	702	429
55°	316	330	349	362	392	287
65°	159	172	187	164	149	165
75°	80	80	73	50	34	85
85°	22	22	21	13	8	24
90°	1	3	9	5	5	2
95°	11	45	149	77	52	13
105°	41	62	252	382	357	43
115°	73	89	202	403	460	72
125°	102	114	184	310	366	90
135°	121	133	178	250	284	94
145°	140	149	176	214	230	88
155°	158	163	176	193	198	73
165°	171	173	176	182	185	48
175°	178	178	177	179	179	17
180°	178	178	178	178	178	



TEST NUMBER: P519009

CATALOG NUMBER: SQ4-WB-025U-075D-930-1D-UNV-STD-W-6

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2042.4	2042.4	2042.4	2042.4	2042.4
2.5°	2047.5	2029.2	2033.8	2033.7	2028.1
5°	2009.3	1989.1	2002.1	2006.8	2013.8
7.5°	1934.7	1919.5	1943.1	1960.7	1974.9
10°	1876.6	1863.5	1893.7	1919.2	1937.6
12.5°	1809.3	1798.2	1835.6	1869.8	1893.9
15°	1699.2	1693.1	1738.6	1785.9	1816.6
17.5°	1581.4	1578.5	1630.7	1685.9	1725.2
20°	1501.1	1500.3	1557.6	1615.1	1660.7
22.5°	1420.1	1422.0	1482.3	1542.1	1594.0
25°	1298.6	1302.1	1369.4	1429.1	1492.2
27.5°	1186.2	1187.8	1257.4	1320.4	1387.7
30°	1109.5	1113.9	1182.1	1247.3	1317.4
32.5°	1032.8	1037.9	1104.7	1172.1	1243.6
35°	917.7	922.1	984.0	1050.2	1124.7
37.5°	799.1	805.0	860.0	922.6	995.9
40°	722.3	731.1	779.7	838.7	910.5
42.5°	648.5	659.4	704.4	760.4	825.2
45°	550.3	560.8	597.8	643.0	701.7
47.5°	465.7	477.8	506.2	545.1	595.3
50°	417.6	429.0	455.3	484.1	531.4
52.5°	375.3	386.7	410.1	432.3	472.7
55°	316.4	329.5	348.6	361.8	391.6
57.5°	268.0	280.6	295.7	301.7	319.8
60°	235.7	249.7	263.5	262.8	272.4
62.5°	206.3	218.2	231.9	222.4	223.0
65°	158.6	171.8	187.3	163.7	148.8
67.5°	128.2	131.0	147.0	114.1	96.4
70°	113.8	113.8	118.3	88.4	73.5
72.5°	100.2	100.2	96.1	71.9	56.3
75°	79.8	79.8	72.6	49.8	34.1
77.5°	61.5	60.8	55.6	37.2	24.7
80°	49.3	49.3	44.8	29.4	19.7
82.5°	38.5	38.5	34.8	22.9	14.7
85°	22.4	22.4	20.6	13.3	8.1
87.5°	8.1	8.6	9.0	5.2	4.5
90°	1.1	3.4	9.1	4.6	4.6
92.5°	4.8	23.1	51.1	22.6	14.6
95°	11.4	44.9	149.4	77.0	52.5
97.5°	19.8	49.3	223.5	177.7	130.9
100°	26.2	53.0	246.3	249.6	193.8
102.5°	31.7	56.7	252.7	310.9	263.2
105°	41.0	62.2	252.0	382.5	356.9
107.5°	50.6	70.3	237.6	419.8	426.0
110°	57.0	74.9	225.8	429.3	456.1



TEST NUMBER: P519009

CATALOG NUMBER: SQ4-WB-025U-075D-930-1D-UNV-STD-W-6

CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	63.4	80.3	214.8	423.3	464.3
115°	73.0	88.6	201.8	402.7	459.5
117.5°	82.3	96.6	192.9	374.1	437.2
120°	87.8	101.2	189.3	354.9	416.2
122.5°	93.3	106.7	186.5	335.7	396.1
125°	101.5	113.7	183.6	310.3	366.0
127.5°	108.1	120.6	181.1	289.8	336.8
130°	111.7	125.1	180.2	276.9	320.4
132.5°	115.4	128.8	179.2	265.9	304.9
135°	120.9	133.1	177.9	250.5	283.9
137.5°	126.6	138.6	177.7	238.9	266.4
140°	131.1	142.3	176.7	229.8	255.4
142.5°	134.8	145.0	176.7	223.3	245.4
145°	140.3	149.2	175.6	213.6	230.3
147.5°	145.7	154.4	175.6	205.6	219.4
150°	149.4	157.2	175.6	200.9	212.1
152.5°	153.0	159.0	175.6	197.2	205.7
155°	158.5	163.0	175.6	192.8	198.4
157.5°	162.6	166.8	175.6	188.9	192.9
160°	165.3	168.7	175.6	187.1	189.3
162.5°	168.1	170.5	175.6	185.2	187.5
165°	171.0	173.3	175.6	182.5	184.7
167.5°	173.8	174.9	176.7	181.3	182.2
170°	175.6	176.7	176.7	181.3	181.3
172.5°	176.5	176.7	176.7	180.4	179.5
175°	177.9	177.9	176.7	179.0	179.0
177.5°	177.9	177.9	177.0	178.8	177.9
180°	177.9	177.9	177.9	177.9	177.9

(END OF REPORT)