

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: P518337

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

Issue Date: 4/29/2021

Test Information

Test Method: LM-79-2019
Report Number: P518337
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1910-536-32, G2-2009-966-12)
Test Lab: INNOVATION CENTER
Issue Date: 4/29/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: CORELITE
Catalog Number: SQ4-BB-025U-075D-930-1D-UNV-STD-W-6
Description: CORELITE SQ4 SUSPENDED LED LUMINAIRE WITH BLACK BAFFLE
DOWNLIGHT 750 LUMENS PER FOOT
UPLIGHT 250 LUMENS PER FOOT
Light Source: 3000K CCT, 90 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

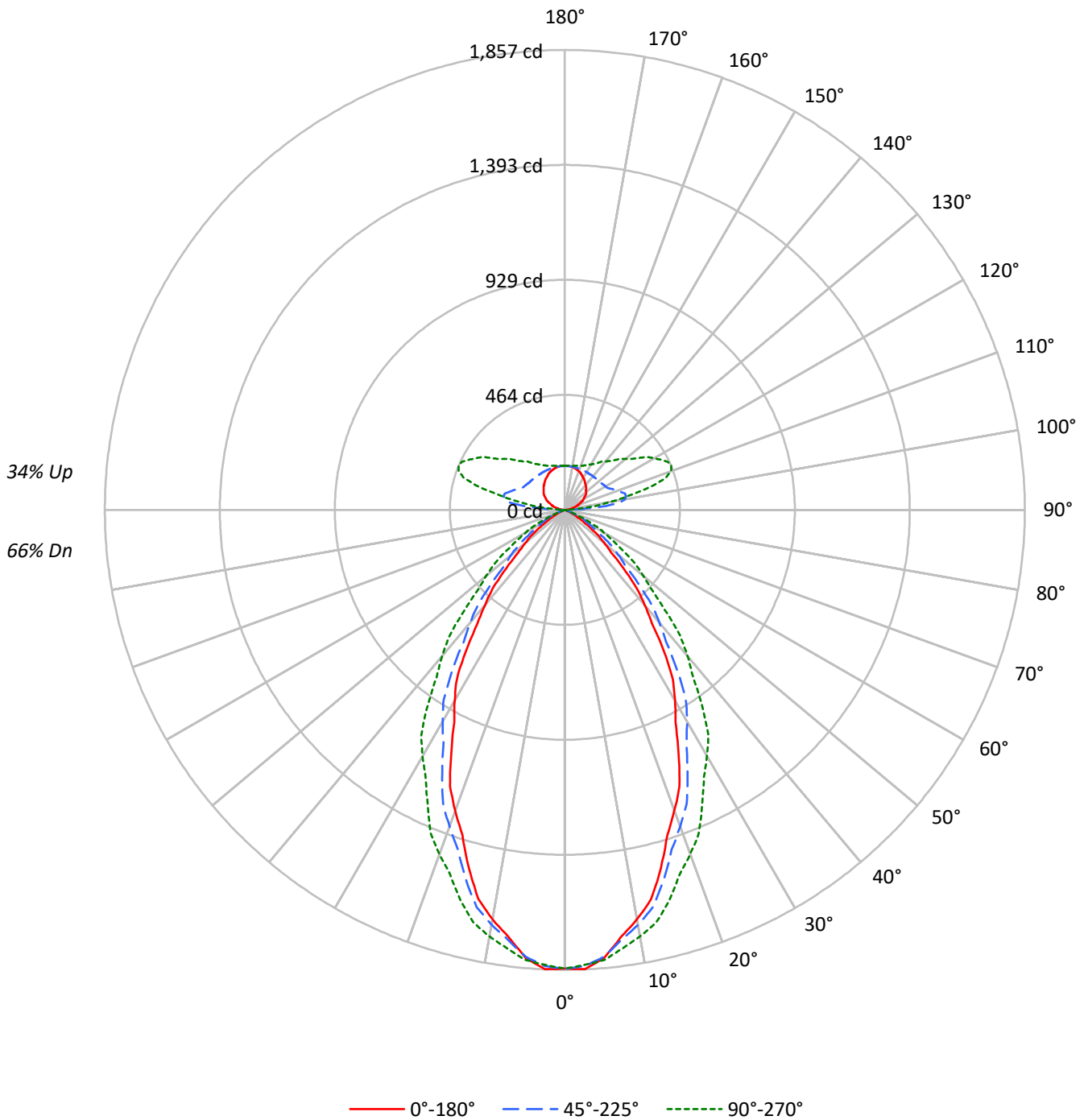
Lumens per Lamp: N/A
Luminaire Lumens: 3363.5 lumens
Efficiency: N/A
Efficacy: 69.2 lumens/watt
Spacing Criteria (0/90/45): 0.85 / 0.97 / 0.97
Luminous Opening: Rectangular (W 0.29' x L: 6' x H: 0')
CIE Type: Semi-Direct

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: P518337
CATALOG NUMBER: SQ4-BB-025U-075D-930-1D-UNV-STD-W-6

Luminous Intensity Polar Plot





TEST NUMBER: P518337

CATALOG NUMBER: SQ4-BB-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	111	111	111	111	104	104	104	104	92	92	92	81	81	81	71	71	71	66
1	104	100	97	94	98	95	92	89	84	82	80	75	73	72	66	65	64	60
2	96	90	85	81	91	86	81	77	77	73	71	69	66	64	61	59	58	54
3	90	82	75	71	84	78	72	68	70	66	62	63	60	57	56	54	52	49
4	83	74	67	62	79	71	65	60	64	59	56	58	54	51	52	49	47	44
5	78	67	60	55	73	64	58	53	59	54	50	53	49	46	48	45	43	40
6	72	62	55	49	68	59	53	48	54	49	45	49	45	42	45	42	39	37
7	68	57	50	45	64	54	48	43	50	45	41	46	41	38	42	38	36	34
8	63	52	45	41	60	50	44	39	46	41	37	43	38	35	39	36	33	31
9	60	48	42	37	57	47	40	36	43	38	34	40	35	32	37	33	31	29
10	56	45	38	34	53	43	37	33	40	35	32	37	33	30	34	31	28	27

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	11393	11393	11393
5°	11209	11182	11265
10°	10488	10628	10925
15°	9535	9838	10385
20°	8464	8904	9684
25°	7371	7955	8897
30°	6314	7007	8153
35°	5235	5948	7253
40°	4022	4756	6181
45°	2908	3601	4973
50°	1981	2684	3944
55°	1288	1941	3066
60°	738	1367	2216
65°	195	835	1122
70°	97	257	322
75°	43	21	0
80°	32	0	0
85°	0	0	0



TEST NUMBER: P518337

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

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	169.0	5.0
10°-20°	432.3	12.9
20°-30°	541.2	16.1
30°-40°	499.9	14.9
40°-50°	335.9	10.0
50°-60°	173.5	5.2
60°-70°	54.3	1.6
70°-80°	3.4	0.1
80°-90°	1.0	0.0
90°-100°	86.7	2.6
100°-110°	227.9	6.8
110°-120°	236.3	7.0
120°-130°	189.6	5.6
130°-140°	148.7	4.4
140°-150°	114.2	3.4
150°-160°	82.2	2.4
160°-170°	50.3	1.5
170°-180°	17.0	0.5
0°-30°	1142.5	34.0
0°-40°	1642.4	48.8
0°-60°	2151.8	64.0
0°-90°	2210.6	65.7
90°-120°	551.0	16.4
90°-150°	1003.4	29.8
90°-180°	1153.0	34.3
0°-180°	3363.5	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1852	1852	1852	1852	1852	
5°	1816	1797	1811	1818	1824	168
15°	1497	1492	1545	1597	1631	417
25°	1086	1095	1172	1252	1311	498
35°	697	715	792	885	966	432
45°	334	354	414	495	572	263
55°	120	140	181	232	286	112
65°	13	26	57	69	77	23
75°	2	2	1	0	0	3
85°	0	0	0	0	0	0
90°	1	3	9	5	5	1
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: P518337

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

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1852.3	1852.3	1852.3	1852.3	1852.3
2.5°	1856.6	1839.1	1843.7	1843.6	1838.7
5°	1815.5	1797.1	1811.1	1817.5	1824.5
7.5°	1738.8	1724.5	1751.2	1771.2	1785.8
10°	1679.3	1667.1	1701.7	1729.1	1749.2
12.5°	1610.5	1601.0	1642.9	1680.5	1706.2
15°	1497.4	1492.2	1544.9	1596.8	1630.9
17.5°	1376.3	1376.1	1436.3	1500.7	1541.9
20°	1293.1	1295.7	1360.3	1431.3	1479.5
22.5°	1209.9	1216.1	1285.0	1359.1	1414.3
25°	1086.1	1094.9	1172.1	1252.3	1311.0
27.5°	967.1	979.9	1061.2	1144.5	1216.0
30°	889.0	903.8	986.6	1074.3	1147.9
32.5°	812.2	829.9	910.6	1003.4	1078.4
35°	697.2	714.7	792.2	885.4	966.0
37.5°	578.4	595.5	671.2	763.0	850.1
40°	500.9	520.2	592.3	681.3	769.8
42.5°	430.7	450.0	517.8	605.2	688.8
45°	334.3	354.4	414.0	494.6	571.7
47.5°	254.3	276.2	328.5	401.4	471.7
50°	207.0	228.9	280.5	344.7	412.2
52.5°	169.0	190.2	236.8	297.3	359.2
55°	120.1	140.2	181.0	232.4	285.9
57.5°	83.0	100.3	136.9	179.8	221.7
60°	60.0	76.7	111.1	145.9	180.1
62.5°	40.0	55.2	88.9	115.6	138.5
65°	13.4	25.7	57.4	69.2	77.1
67.5°	6.8	8.2	30.1	31.8	34.4
70°	5.4	5.4	14.3	15.3	17.9
72.5°	3.9	3.9	5.7	7.4	7.9
75°	1.8	1.8	0.9	0.0	0.0
77.5°	0.9	0.9	0.7	0.0	0.0
80°	0.9	0.9	0.0	0.0	0.0
82.5°	0.2	0.2	0.0	0.0	0.0
85°	0.0	0.0	0.0	0.0	0.0
87.5°	0.2	0.7	1.8	0.9	0.9
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: P518337

CATALOG NUMBER: SQ4-BB-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)