

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: P519200

Luminaire Tested: **SQ4-WB-075U-075D-930-1D-UNV-STD-W-4**

Issue Date: 4/29/2021

**Test Information**

Test Method: LM-79-2019  
Report Number: P519200  
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1910-536-22, 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-075U-075D-930-1D-UNV-STD-W-4  
Description: CORELITE SQ4 SUSPENDED LED LUMINAIRE WITH WHITE BAFFLE  
DOWNLIGHT 750 LUMENS PER FOOT  
UPLIGHT 750 LUMENS PER FOOT  
Light Source: 3000K CCT, 90 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

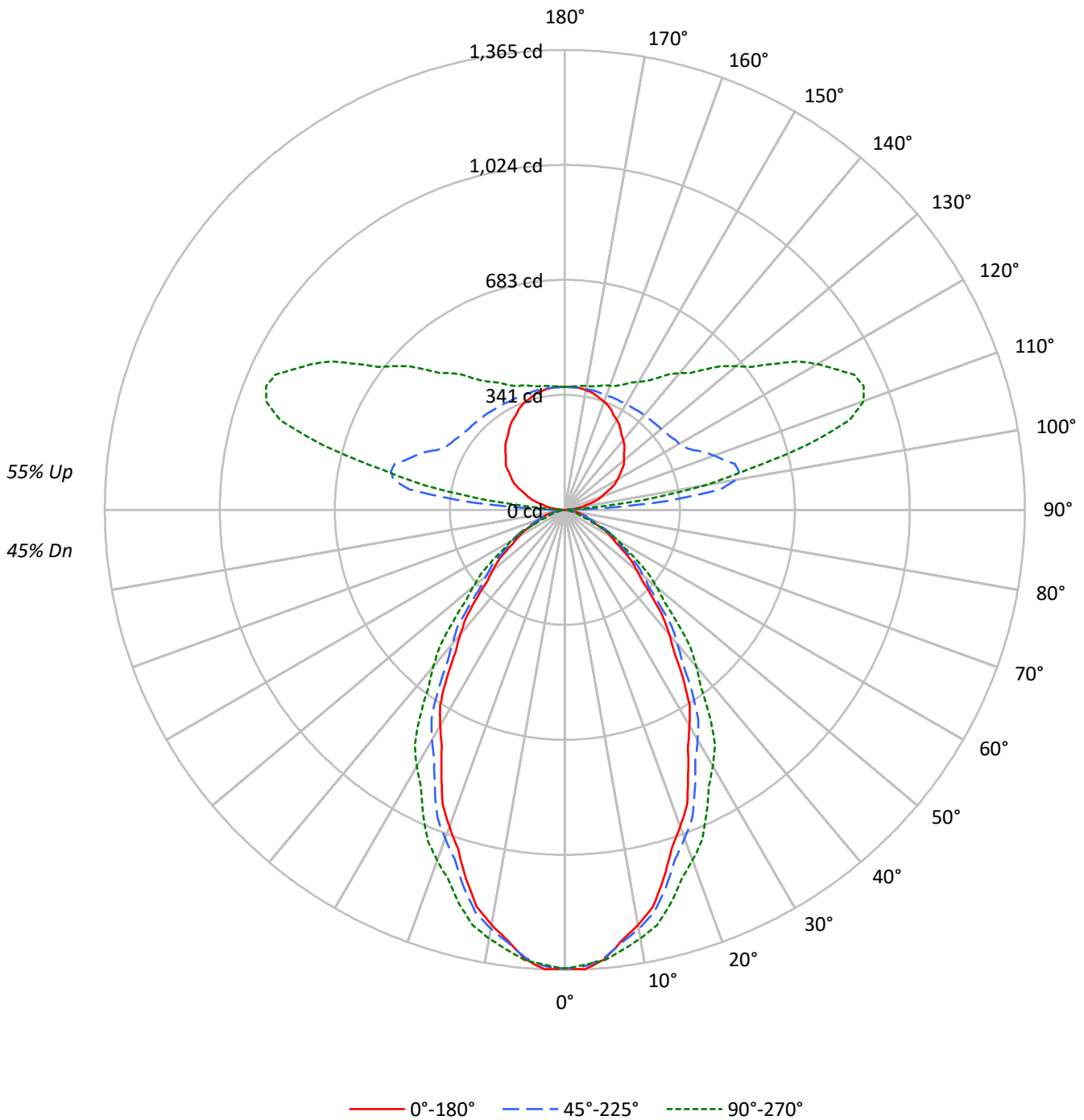
Lumens per Lamp: N/A  
Luminaire Lumens: 4367.4 lumens  
Efficiency: N/A  
Efficacy: 102.8 lumens/watt  
Spacing Criteria (0/90/45): 0.89 / 1 / 1.02  
Luminous Opening: Rectangular (W 0.29' x L: 4' x H: 0')  
CIE Type: General Diffuse

Input Watts (W): 42.5  
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



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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	106	106	106	106	97	97	97	97	81	81	81	66	66	66	52	52	52	45
1	98	94	90	87	90	86	83	81	72	70	68	59	58	57	47	47	46	40
2	90	83	78	73	82	77	72	68	65	61	58	53	51	49	43	42	40	36
3	83	74	67	62	76	69	63	58	58	54	50	48	45	43	39	37	36	31
4	76	66	59	54	70	61	55	50	52	48	44	44	40	38	36	34	32	28
5	70	60	52	47	65	55	49	44	47	42	39	40	36	33	33	30	28	25
6	65	54	47	41	60	50	44	39	43	38	34	36	33	30	30	28	26	23
7	61	49	42	37	56	46	39	35	39	34	31	34	30	27	28	25	23	21
8	56	45	38	33	52	42	36	31	36	31	28	31	27	24	26	23	21	19
9	53	41	34	29	49	39	32	28	34	29	25	29	25	22	24	21	19	17
10	49	38	31	27	46	36	30	25	31	26	23	27	23	20	23	20	18	16

**AVERAGE LUMINANCE (cd/sqm):**

	0°	45°	90°
0°	12562	12562	12562
5°	12406	12361	12433
10°	11721	11827	12101
15°	10820	11071	11568
20°	9826	10195	10870
25°	8813	9293	10127
30°	7880	8396	9357
35°	6891	7389	8445
40°	5800	6260	7311
45°	4786	5200	6104
50°	3996	4356	5085
55°	3392	3738	4200
60°	2899	3242	3351
65°	2310	2727	2166
70°	2047	2128	1322
75°	1896	1725	809
80°	1748	1589	696
85°	1577	1450	572



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	124.9	2.9
10°-20°	324.9	7.4
20°-30°	420.8	9.6
30°-40°	412.0	9.4
40°-50°	315.4	7.2
50°-60°	210.2	4.8
60°-70°	114.7	2.6
70°-80°	47.8	1.1
80°-90°	14.5	0.3
90°-100°	172.5	3.9
100°-110°	474.5	10.9
110°-120°	489.8	11.2
120°-130°	392.4	9.0
130°-140°	308.2	7.1
140°-150°	236.2	5.4
150°-160°	169.8	3.9
160°-170°	103.8	2.4
170°-180°	35.0	0.8
0°-30°	870.5	19.9
0°-40°	1282.6	29.4
0°-60°	1808.1	41.4
0°-90°	1985.1	45.5
90°-120°	1136.8	26.0
90°-150°	2073.6	47.5
90°-180°	2382.0	54.5
0°-180°	4367.4	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	1362	1362	1362	1362	1362	
5°	1340	1326	1335	1338	1342	125
15°	1133	1129	1159	1191	1211	316
25°	866	868	913	953	995	398
35°	612	615	656	700	750	380
45°	367	374	398	429	468	286
55°	211	220	232	241	261	191
65°	106	114	125	109	99	110
75°	53	53	48	33	23	57
85°	15	15	14	9	5	16
90°	1	3	5	7	7	2
95°	26	94	305	130	83	27
105°	85	130	523	796	743	89
115°	150	183	419	835	948	148
125°	207	236	380	644	754	185
135°	250	277	370	520	589	193
145°	289	308	364	444	478	181
155°	327	337	362	399	410	150
165°	353	358	363	378	380	100
175°	366	366	364	369	368	35
180°	366	366	366	366	366	

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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	1361.6	1361.6	1361.6	1361.6	1361.6
2.5°	1365.0	1352.8	1355.9	1355.8	1352.1
5°	1339.5	1326.1	1334.7	1337.8	1342.5
7.5°	1289.8	1279.6	1295.4	1307.1	1316.6
10°	1251.1	1242.3	1262.4	1279.5	1291.7
12.5°	1206.2	1198.8	1223.7	1246.6	1262.6
15°	1132.8	1128.7	1159.1	1190.6	1211.1
17.5°	1054.3	1052.3	1087.2	1124.0	1150.1
20°	1000.8	1000.2	1038.4	1076.7	1107.1
22.5°	946.7	948.0	988.2	1028.1	1062.7
25°	865.7	868.1	912.9	952.7	994.8
27.5°	790.8	791.9	838.2	880.3	925.1
30°	739.7	742.6	788.1	831.5	878.3
32.5°	688.5	691.9	736.4	781.4	829.0
35°	611.8	614.7	656.0	700.2	749.8
37.5°	532.7	536.7	573.3	615.1	663.9
40°	481.6	487.4	519.8	559.1	607.0
42.5°	432.3	439.6	469.6	506.9	550.1
45°	366.8	373.9	398.5	428.7	467.8
47.5°	310.4	318.5	337.4	363.4	396.8
50°	278.4	286.0	303.5	322.8	354.3
52.5°	250.2	257.8	273.4	288.2	315.1
55°	210.9	219.7	232.4	241.2	261.1
57.5°	178.6	187.1	197.2	201.1	213.2
60°	157.1	166.5	175.7	175.2	181.6
62.5°	137.5	145.5	154.6	148.3	148.6
65°	105.8	114.5	124.9	109.1	99.2
67.5°	85.4	87.3	98.0	76.1	64.3
70°	75.9	75.9	78.9	58.9	49.0
72.5°	66.8	66.8	64.0	47.9	37.5
75°	53.2	53.2	48.4	33.2	22.7
77.5°	41.0	40.5	37.0	24.8	16.5
80°	32.9	32.9	29.9	19.6	13.1
82.5°	25.7	25.7	23.2	15.3	9.8
85°	14.9	14.9	13.7	8.9	5.4
87.5°	5.4	5.9	5.9	4.3	3.8
90°	0.8	3.1	5.4	7.0	7.0
92.5°	10.7	45.9	79.5	30.5	25.1
95°	25.7	94.1	305.0	130.4	83.3
97.5°	41.9	104.4	465.4	358.6	253.0
100°	53.7	110.7	515.9	520.7	424.8
102.5°	64.9	118.3	528.9	646.0	558.0
105°	84.8	130.5	522.9	796.3	743.0
107.5°	103.8	145.5	493.1	869.9	885.7
110°	117.5	155.5	470.7	888.2	943.0

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**CANDELA DISTRIBUTION (continued):**

	0°	22.5°	45°	67.5°	90°
112.5°	129.9	166.8	448.3	876.4	959.8
115°	150.2	182.9	419.4	835.1	947.7
117.5°	169.5	199.6	401.0	777.1	904.4
120°	181.3	210.2	392.9	733.6	865.2
122.5°	191.9	220.8	387.3	695.5	820.4
125°	207.0	235.9	380.5	643.6	753.9
127.5°	221.3	248.8	376.0	600.4	697.1
130°	228.8	256.9	373.5	574.7	662.9
132.5°	237.5	265.6	371.6	552.1	631.8
135°	249.8	277.1	369.6	520.5	589.0
137.5°	261.3	286.7	367.9	495.0	551.5
140°	270.0	293.6	367.2	478.1	529.1
142.5°	277.5	299.2	366.0	463.0	506.7
145°	288.7	308.4	364.1	443.5	477.7
147.5°	300.6	317.7	363.2	426.2	453.6
150°	308.1	323.3	362.6	416.7	438.0
152.5°	315.0	329.0	362.0	408.6	426.2
155°	326.8	337.4	361.8	398.6	410.0
157.5°	335.3	344.0	361.8	390.5	398.4
160°	341.6	348.4	361.8	386.1	392.1
162.5°	346.5	352.2	362.4	382.3	387.2
165°	353.2	357.8	363.4	378.2	380.5
167.5°	357.9	361.4	364.1	374.7	375.3
170°	361.0	363.3	364.1	373.5	373.5
172.5°	363.5	364.6	364.1	371.6	371.0
175°	365.7	366.4	364.1	368.8	368.0
177.5°	366.3	366.3	363.8	367.5	366.3
180°	365.7	365.7	365.7	365.7	365.7

(END OF REPORT)