

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: P519181

Luminaire Tested: **SQ4-WB-075U-050D-935-1D-UNV-STD-W-6**

Issue Date: 4/29/2021

**Test Information**

Test Method: LM-79-2019  
Report Number: P519181  
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-050D-935-1D-UNV-STD-W-6  
Description: CORELITE SQ4 SUSPENDED LED LUMINAIRE WITH WHITE BAFFLE  
DOWNLIGHT 500 LUMENS PER FOOT  
UPLIGHT 750 LUMENS PER FOOT  
Light Source: 3500K CCT, 90 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

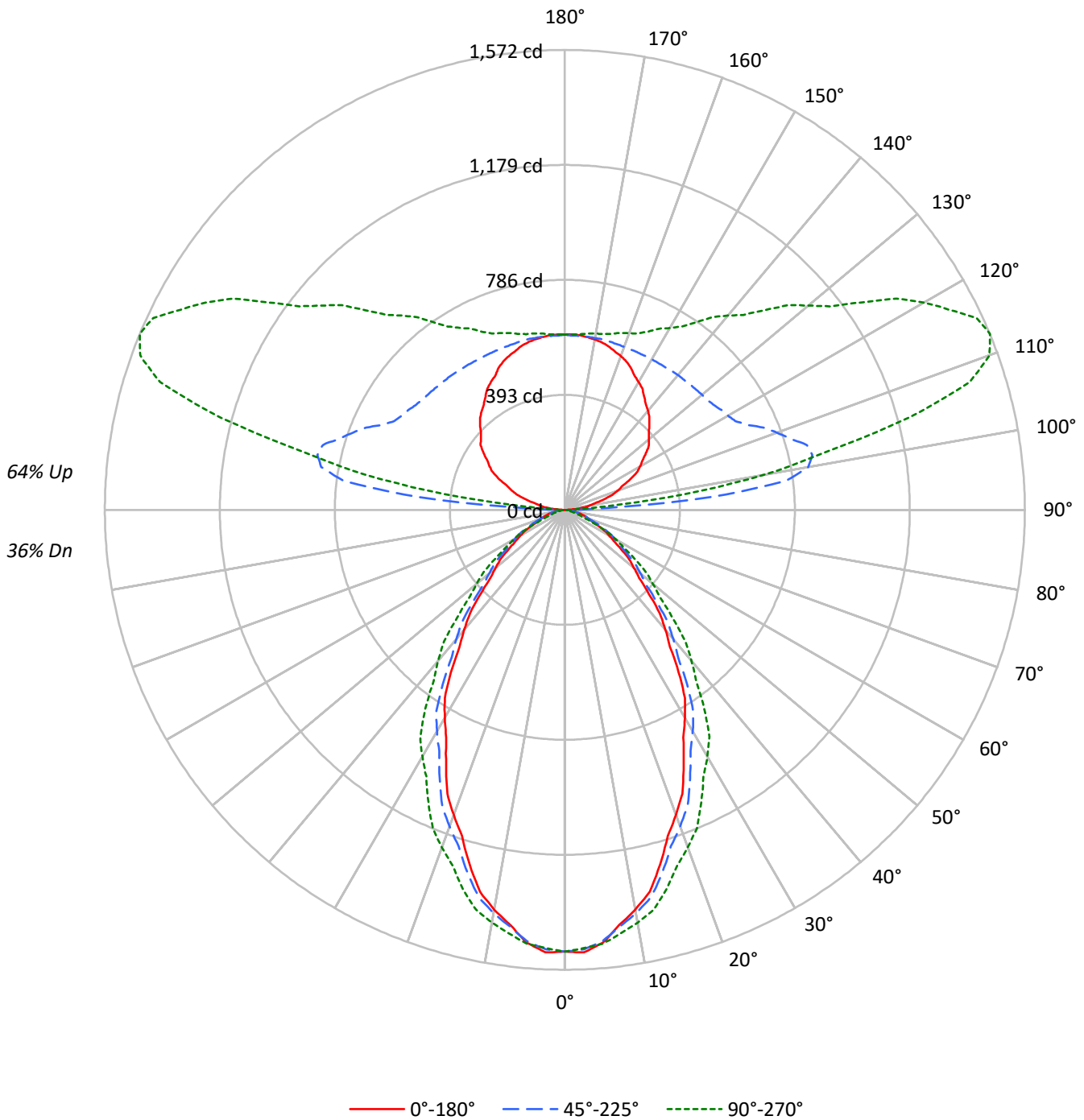
Lumens per Lamp: N/A  
Luminaire Lumens: 6103.9 lumens  
Efficiency: N/A  
Efficacy: 112.4 lumens/watt  
Spacing Criteria (0/90/45): 0.89 / 1 / 1.02  
Luminous Opening: Rectangular (W 0.29' x L: 6' x H: 0')  
CIE Type: Semi-Indirect

Input Watts (W): 54.3  
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	104	104	104	104	94	94	94	94	76	76	76	59	59	59	43	43	43	36
1	95	92	88	85	86	83	80	78	67	65	64	53	52	50	40	39	38	32
2	88	81	75	71	79	74	69	65	60	57	54	47	45	43	36	35	33	28
3	80	72	65	60	73	66	60	55	54	50	46	43	40	38	33	31	29	25
4	74	64	57	51	67	59	52	48	48	44	40	39	36	33	30	28	26	22
5	68	58	50	45	62	53	46	41	44	39	35	35	32	29	27	25	23	20
6	63	52	44	39	57	48	41	36	40	35	31	32	29	26	25	23	21	18
7	58	47	40	35	53	43	37	32	36	31	28	29	26	23	23	21	19	16
8	54	43	36	31	49	40	33	29	33	28	25	27	24	21	21	19	17	15
9	51	39	32	28	46	36	30	26	31	26	23	25	22	19	20	18	16	14
10	47	36	29	25	43	33	27	23	28	24	20	23	20	18	19	16	15	13

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

	0°	45°	90°
0°	9288	9288	9288
5°	9172	9139	9193
10°	8666	8745	8947
15°	8000	8185	8553
20°	7264	7538	8037
25°	6516	6871	7487
30°	5826	6207	6918
35°	5095	5463	6244
40°	4288	4629	5405
45°	3539	3845	4513
50°	2955	3221	3760
55°	2508	2765	3106
60°	2144	2396	2478
65°	1707	2016	1601
70°	1512	1574	977
75°	1402	1276	599
80°	1289	1172	517
85°	1172	1073	423



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	138.5	2.3
10°-20°	360.3	5.9
20°-30°	466.6	7.6
30°-40°	457.0	7.5
40°-50°	349.8	5.7
50°-60°	233.1	3.8
60°-70°	127.2	2.1
70°-80°	53.0	0.9
80°-90°	16.5	0.3
90°-100°	282.5	4.6
100°-110°	777.2	12.7
110°-120°	802.2	13.1
120°-130°	642.7	10.5
130°-140°	504.8	8.3
140°-150°	386.9	6.3
150°-160°	278.2	4.6
160°-170°	170.1	2.8
170°-180°	57.3	0.9
0°-30°	965.4	15.8
0°-40°	1422.4	23.3
0°-60°	2005.2	32.9
0°-90°	2202.0	36.1
90°-120°	1861.9	30.5
90°-150°	3396.4	55.6
90°-180°	3902.0	63.9
0°-180°	6103.9	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	1510	1510	1510	1510	1510	
5°	1486	1471	1480	1484	1489	138
15°	1256	1252	1285	1320	1343	351
25°	960	963	1012	1057	1103	442
35°	678	682	728	776	832	422
45°	407	415	442	475	519	317
55°	234	244	258	268	290	212
65°	117	127	138	121	110	122
75°	59	59	54	37	25	63
85°	17	17	15	10	6	18
90°	1	5	9	12	12	4
95°	42	154	500	214	136	44
105°	139	214	856	1304	1217	146
115°	246	300	687	1368	1552	243
125°	339	386	623	1054	1235	302
135°	409	454	605	852	965	316
145°	473	505	596	726	782	296
155°	535	553	593	653	672	246
165°	579	586	595	619	623	163
175°	599	600	596	604	603	57
180°	599	599	599	599	599	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	1510.1	1510.1	1510.1	1510.1	1510.1
2.5°	1513.8	1500.3	1503.7	1503.6	1499.5
5°	1485.5	1470.6	1480.2	1483.7	1488.9
7.5°	1430.4	1419.1	1436.6	1449.6	1460.1
10°	1387.5	1377.8	1400.1	1418.9	1432.5
12.5°	1337.7	1329.5	1357.1	1382.4	1400.2
15°	1256.3	1251.7	1285.4	1320.4	1343.1
17.5°	1169.2	1167.0	1205.7	1246.5	1275.5
20°	1109.8	1109.2	1151.6	1194.1	1227.8
22.5°	1050.0	1051.4	1095.9	1140.1	1178.5
25°	960.1	962.7	1012.4	1056.6	1103.2
27.5°	877.0	878.2	929.6	976.2	1026.0
30°	820.3	823.5	874.0	922.2	974.0
32.5°	763.6	767.3	816.7	866.6	919.4
35°	678.5	681.7	727.5	776.5	831.6
37.5°	590.8	595.2	635.8	682.1	736.3
40°	534.1	540.5	576.5	620.1	673.2
42.5°	479.5	487.5	520.8	562.2	610.1
45°	406.8	414.6	442.0	475.4	518.8
47.5°	344.3	353.2	374.2	403.0	440.1
50°	308.8	317.2	336.6	357.9	392.9
52.5°	277.5	285.9	303.2	319.7	349.5
55°	233.9	243.6	257.8	267.5	289.6
57.5°	198.1	207.4	218.7	223.1	236.4
60°	174.3	184.6	194.8	194.3	201.4
62.5°	152.5	161.3	171.5	164.5	164.9
65°	117.3	127.0	138.5	121.0	110.0
67.5°	94.8	96.8	108.7	84.4	71.3
70°	84.1	84.1	87.5	65.3	54.3
72.5°	74.1	74.1	71.0	53.1	41.6
75°	59.0	59.0	53.7	36.8	25.2
77.5°	45.5	44.9	41.1	27.5	18.3
80°	36.4	36.4	33.1	21.7	14.6
82.5°	28.5	28.5	25.7	17.0	10.9
85°	16.6	16.6	15.2	9.9	6.0
87.5°	6.1	6.8	7.1	5.5	4.9
90°	1.3	5.0	8.9	11.5	11.5
92.5°	17.6	75.2	130.2	50.0	41.0
95°	42.1	154.2	499.5	213.6	136.4
97.5°	68.6	171.0	762.3	587.4	414.4
100°	87.9	181.4	844.9	852.8	695.8
102.5°	106.3	193.8	866.3	1058.0	914.0
105°	138.9	213.7	856.4	1304.2	1217.0
107.5°	170.0	238.3	807.7	1424.8	1450.7
110°	192.4	254.7	771.0	1454.8	1544.5



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**CANDELA DISTRIBUTION (continued):**

	0°	22.5°	45°	67.5°	90°
112.5°	212.8	273.1	734.3	1435.5	1572.1
115°	246.0	299.5	686.9	1367.8	1552.2
117.5°	277.6	326.9	656.8	1272.7	1481.3
120°	296.9	344.3	643.6	1201.5	1417.1
122.5°	314.3	361.6	634.4	1139.1	1343.7
125°	339.0	386.3	623.2	1054.2	1234.9
127.5°	362.4	407.5	615.8	983.3	1141.8
130°	374.7	420.8	611.7	941.2	1085.8
132.5°	388.9	435.0	608.6	904.2	1034.8
135°	409.1	453.9	605.3	852.5	964.7
137.5°	427.9	469.5	602.5	810.8	903.3
140°	442.2	480.8	601.5	783.1	866.6
142.5°	454.4	490.1	599.5	758.3	829.9
145°	472.8	505.2	596.4	726.4	782.5
147.5°	492.4	520.3	594.9	698.1	743.0
150°	504.6	529.6	593.9	682.6	717.5
152.5°	515.9	538.8	592.8	669.2	698.1
155°	535.2	552.7	592.6	652.9	671.6
157.5°	549.2	563.5	592.6	639.5	652.5
160°	559.4	570.7	592.6	632.3	642.3
162.5°	567.6	576.8	593.6	626.1	634.1
165°	578.6	586.0	595.1	619.4	623.2
167.5°	586.2	591.9	596.4	613.8	614.8
170°	591.3	595.0	596.4	611.7	611.7
172.5°	595.4	597.1	596.4	608.6	607.6
175°	598.9	600.2	596.4	604.0	602.8
177.5°	600.0	600.0	595.9	602.0	600.0
180°	598.9	598.9	598.9	598.9	598.9

(END OF REPORT)