

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: P564126

Luminaire Tested: **SQ4-PR1-075U-125D-930-1D-UNV-STD-W-4**

Issue Date: 7/30/2021

**Test Information**

Test Method: LM-79-2019  
Report Number: P564126  
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1910-536-22, G2-2106-289-4)  
Test Lab: INNOVATION CENTER  
Issue Date: 7/30/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: CORELITE  
Catalog Number: SQ4-PR1-075U-125D-930-1D-UNV-STD-W-4  
Description: CORELITE SQ4 SUSPENDED LED LUMINAIRE WITH PERCEIVE RIPPLE CONTINUOUS LENS.  
DOWNLIGHT 1250 LUMENS PER FOOT  
UPLIGHT 750 LUMENS PER FOOT  
Light Source: 3000K CCT, 90 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

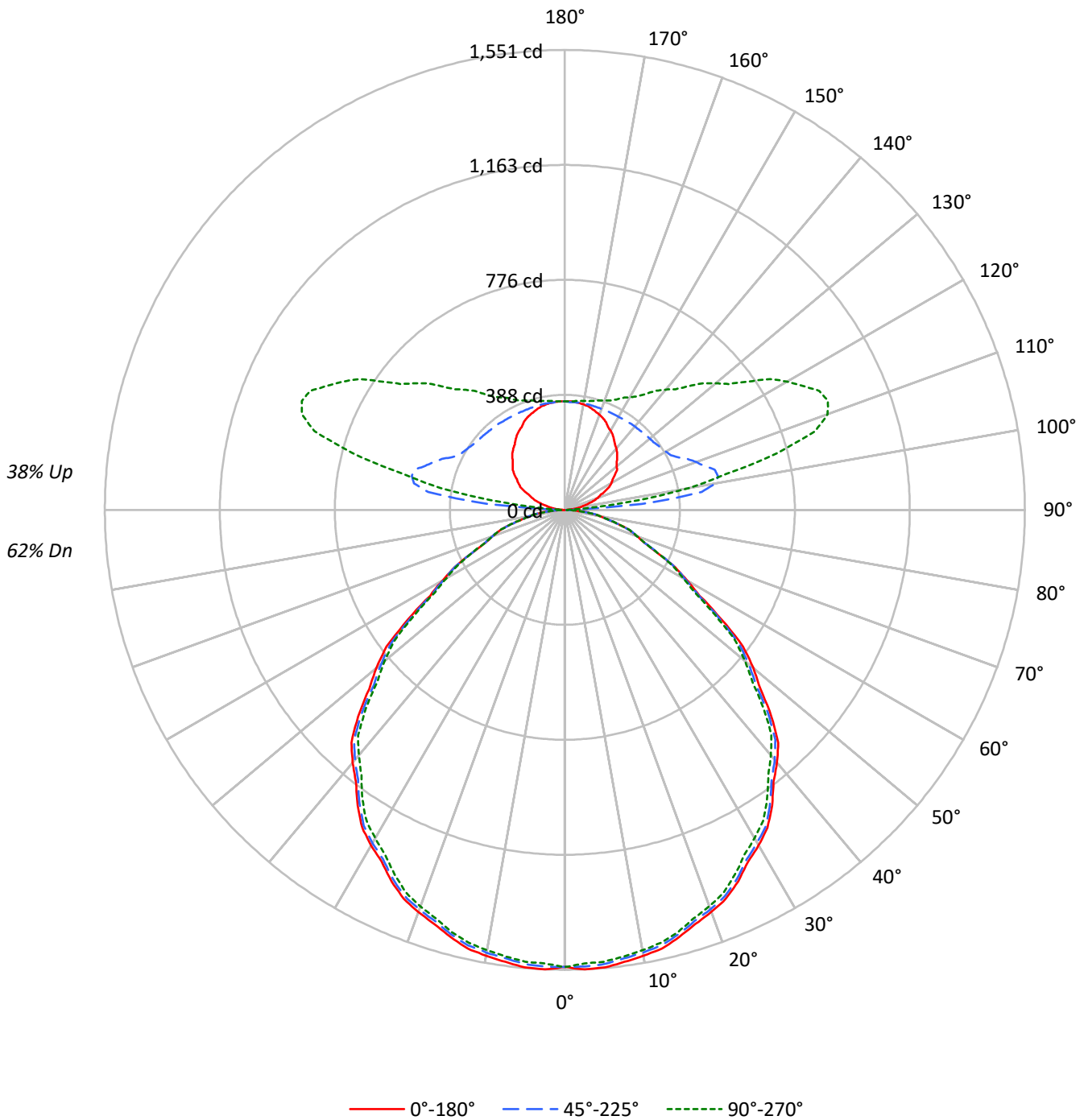
Lumens per Lamp: N/A  
Luminaire Lumens: 6236.9 lumens  
Efficiency: N/A  
Efficacy: 100.4 lumens/watt  
Spacing Criteria (0/90/45): 1.26 / 1.24 / 1.35  
Luminous Opening: Rectangular (W 0.29' x L: 4' x H: 0')  
CIE Type: Semi-Direct

Input Watts (W): 62.1  
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	50	30	10	0	
RCR																						
0	110	110	110	110	103	103	103	103	90	90	90	78	78	78	67	67	67	62				
1	101	97	93	89	94	91	87	84	79	77	75	69	67	66	60	58	57	53				
2	92	85	79	74	86	80	74	70	70	66	62	61	58	55	53	51	49	45				
3	84	75	67	62	79	70	64	59	62	57	53	54	51	47	47	44	42	38				
4	77	66	59	53	72	63	56	50	55	50	45	49	44	41	42	39	36	33				
5	71	59	51	45	66	56	49	43	50	44	39	44	39	36	38	35	32	29				
6	66	53	45	39	61	51	43	38	45	39	35	40	35	31	35	31	28	26				
7	61	48	40	35	57	46	38	33	41	35	31	36	31	28	32	28	25	23				
8	56	44	36	31	53	42	35	30	37	31	27	33	28	25	29	25	23	20				
9	53	40	33	28	49	38	31	27	34	29	24	31	26	22	27	23	20	18				
10	49	37	30	25	46	35	28	24	32	26	22	28	24	20	25	21	19	17				

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

	0°	45°	90°
0°	14222	14222	14222
5°	14351	14240	14166
10°	14305	14206	14131
15°	14242	14154	14077
20°	14171	14079	13975
25°	14071	13976	13814
30°	13919	13820	13622
35°	13714	13593	13400
40°	13401	13257	13017
45°	12855	12629	12369
50°	11892	11606	11378
55°	10380	10145	9931
60°	8746	8673	8501
65°	7564	7595	7536
70°	6949	6984	6984
75°	6673	6673	6720
80°	6280	6349	6280
85°	5060	5621	5621



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	145.8	2.3
10°-20°	417.1	6.7
20°-30°	629.1	10.1
30°-40°	749.6	12.0
40°-50°	739.0	11.8
50°-60°	564.8	9.1
60°-70°	349.5	5.6
70°-80°	198.5	3.2
80°-90°	61.3	1.0
90°-100°	172.5	2.8
100°-110°	474.5	7.6
110°-120°	489.8	7.9
120°-130°	392.4	6.3
130°-140°	308.2	4.9
140°-150°	236.2	3.8
150°-160°	169.8	2.7
160°-170°	103.8	1.7
170°-180°	35.0	0.6
0°-30°	1191.9	19.1
0°-40°	1941.5	31.1
0°-60°	3245.3	52.0
0°-90°	3854.6	61.8
90°-120°	1136.8	18.2
90°-150°	2073.6	33.2
90°-180°	2382.0	38.2
0°-180°	6236.9	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	1542	1542	1542	1542	1542	
5°	1550	1533	1538	1532	1530	147
15°	1491	1476	1482	1476	1474	421
25°	1382	1365	1373	1358	1357	636
35°	1218	1203	1207	1191	1190	760
45°	985	972	968	951	948	755
55°	645	635	631	620	617	578
65°	346	344	348	345	345	351
75°	187	187	187	188	188	198
85°	48	50	53	53	53	56
90°	1	3	5	7	7	4
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°	1541.5	1541.5	1541.5	1541.5	1541.5
2.5°	1551.1	1537.6	1541.5	1538.2	1530.9
5°	1549.5	1532.6	1537.6	1532.2	1529.6
7.5°	1537.6	1520.9	1525.9	1520.5	1519.0
10°	1526.9	1511.4	1516.3	1511.0	1508.4
12.5°	1515.3	1498.6	1504.6	1498.2	1495.6
15°	1491.1	1475.5	1481.8	1476.4	1473.8
17.5°	1464.5	1447.9	1454.2	1448.0	1444.6
20°	1443.3	1427.7	1434.0	1424.7	1423.4
22.5°	1419.9	1404.3	1410.6	1398.1	1397.9
25°	1382.2	1365.3	1372.9	1358.3	1357.0
27.5°	1337.3	1321.8	1328.0	1313.1	1311.6
30°	1306.5	1291.0	1297.2	1281.2	1278.6
32.5°	1271.5	1256.9	1262.2	1246.2	1244.7
35°	1217.6	1203.3	1206.9	1191.0	1189.7
37.5°	1156.2	1143.2	1145.3	1127.8	1126.5
40°	1112.7	1099.7	1100.7	1082.1	1080.8
42.5°	1064.9	1051.9	1050.8	1032.2	1030.9
45°	985.2	972.2	967.9	950.6	948.0
47.5°	894.4	881.4	873.4	859.3	857.5
50°	828.5	815.5	808.6	796.6	792.7
52.5°	757.4	744.4	738.5	727.5	723.6
55°	645.3	634.9	630.7	620.0	617.4
57.5°	538.8	531.8	530.6	520.2	519.2
60°	474.0	470.1	470.0	460.7	460.7
62.5°	418.8	415.9	418.0	411.9	410.8
65°	346.5	344.0	347.9	345.2	345.2
67.5°	289.5	289.5	291.8	290.8	290.8
70°	257.6	257.6	258.9	258.9	258.9
72.5°	228.9	227.9	231.3	231.3	230.2
75°	187.2	187.2	187.2	188.5	188.5
77.5°	145.8	146.0	147.1	146.8	145.8
80°	118.2	119.5	119.5	118.2	118.2
82.5°	90.6	91.9	91.9	91.6	90.6
85°	47.8	50.4	53.1	53.1	53.1
87.5°	14.0	18.6	22.3	22.6	21.6
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)