

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: P564519

Luminaire Tested: **SQ4-PR1-150U-125D-940-1D-UNV-STD-W-6**

Issue Date: 7/30/2021

**Test Information**

Test Method: LM-79-2019  
Report Number: P564519  
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1910-536-25, 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-PR1-150U-125D-940-1D-UNV-STD-W-6  
Description: CORELITE SQ4 SUSPENDED LED LUMINAIRE WITH PERCEIVE RIPPLE CONTINUOUS LENS.  
DOWNLIGHT 1250 LUMENS PER FOOT  
UPLIGHT 1500 LUMENS PER FOOT  
Light Source: 4000K CCT, 90 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

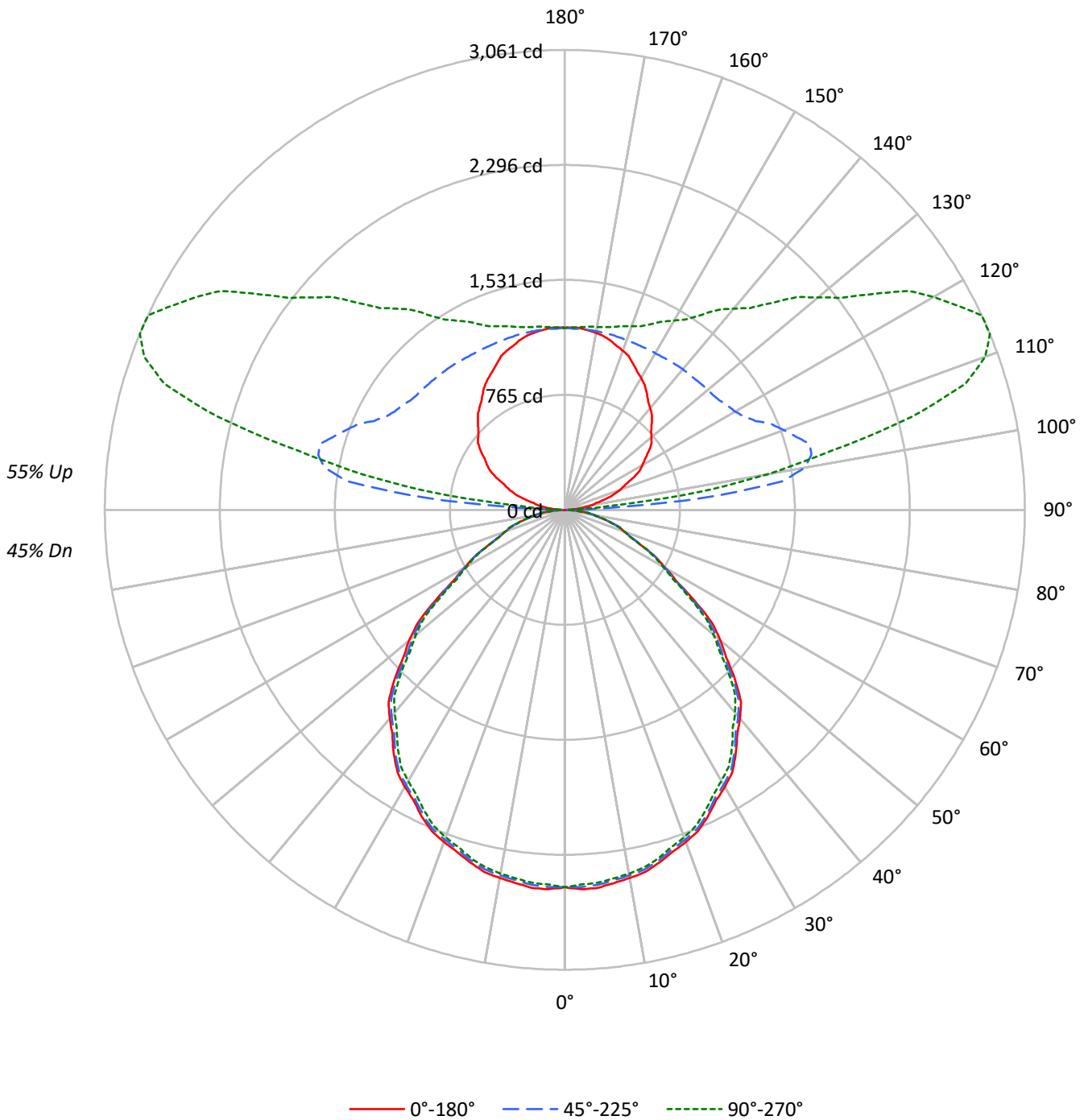
Lumens per Lamp: N/A  
Luminaire Lumens: 14093.7 lumens  
Efficiency: N/A  
Efficacy: 110.9 lumens/watt  
Spacing Criteria (0/90/45): 1.26 / 1.24 / 1.35  
Luminous Opening: Rectangular (W 0.29' x L: 6' x H: 0')  
CIE Type: General Diffuse

Input Watts (W): 127.1  
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	106	106	106	106	97	97	97	97	80	80	80	65	65	65	51	51	51	45				
1	97	93	89	85	89	85	82	79	71	68	66	58	56	55	46	45	44	38				
2	88	81	75	70	81	75	69	65	62	59	55	51	48	46	40	39	37	32				
3	81	72	64	59	74	66	60	55	55	51	47	45	42	39	36	34	32	28				
4	74	63	56	50	68	58	52	47	49	44	40	40	37	34	32	30	28	24				
5	68	57	49	43	62	52	45	40	44	39	35	36	32	29	29	26	24	21				
6	63	51	43	37	57	47	40	35	40	34	30	33	29	26	27	24	21	18				
7	58	46	38	33	53	42	35	31	36	31	27	30	26	23	24	21	19	16				
8	54	42	34	29	49	39	32	27	33	27	24	27	23	20	22	19	17	15				
9	50	38	31	26	46	35	29	24	30	25	21	25	21	18	21	18	15	13				
10	47	35	28	23	43	32	26	22	28	23	19	23	19	17	19	16	14	12				

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

	0°	45°	90°
0°	15451	15451	15451
5°	15590	15470	15390
10°	15541	15432	15351
15°	15472	15376	15293
20°	15394	15296	15182
25°	15286	15183	15007
30°	15122	15014	14798
35°	14898	14768	14557
40°	14559	14402	14141
45°	13965	13720	13438
50°	12919	12609	12360
55°	11276	11021	10789
60°	9502	9422	9236
65°	8219	8251	8188
70°	7550	7587	7587
75°	7251	7251	7301
80°	6822	6896	6822
85°	5498	6105	6105



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	237.6	1.7
10°-20°	679.7	4.8
20°-30°	1025.1	7.3
30°-40°	1221.4	8.7
40°-50°	1204.2	8.5
50°-60°	920.3	6.5
60°-70°	569.5	4.0
70°-80°	323.5	2.3
80°-90°	100.9	0.7
90°-100°	563.1	4.0
100°-110°	1522.4	10.8
110°-120°	1600.6	11.4
120°-130°	1300.1	9.2
130°-140°	1019.8	7.2
140°-150°	782.7	5.6
150°-160°	562.9	4.0
160°-170°	343.9	2.4
170°-180°	115.9	0.8
0°-30°	1942.3	13.8
0°-40°	3163.8	22.4
0°-60°	5288.4	37.5
0°-90°	6282.3	44.6
90°-120°	3686.0	26.2
90°-150°	6788.7	48.2
90°-180°	7811.0	55.4
0°-180°	14093.7	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	2512	2512	2512	2512	2512	
5°	2525	2498	2506	2497	2493	240
15°	2430	2404	2415	2406	2402	686
25°	2252	2225	2237	2213	2211	1037
35°	1984	1961	1967	1941	1939	1238
45°	1605	1584	1577	1549	1545	1230
55°	1052	1035	1028	1010	1006	942
65°	565	560	567	563	563	572
75°	305	305	305	307	307	322
85°	78	82	86	86	86	91
90°	3	8	17	18	17	9
95°	87	307	936	485	288	91
105°	283	437	1689	2491	2389	298
115°	498	609	1401	2712	3061	492
125°	682	782	1262	2130	2503	608
135°	818	915	1228	1720	1947	632
145°	951	1022	1212	1472	1585	595
155°	1073	1115	1201	1321	1364	495
165°	1168	1180	1206	1253	1260	329
175°	1213	1212	1208	1223	1221	115
180°	1212	1212	1212	1212	1212	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	2512.0	2512.0	2512.0	2512.0	2512.0
2.5°	2527.6	2505.6	2512.0	2506.6	2494.7
5°	2525.0	2497.5	2505.5	2496.8	2492.6
7.5°	2505.5	2478.5	2486.5	2477.8	2475.2
10°	2488.2	2462.8	2470.9	2462.2	2457.9
12.5°	2469.2	2442.1	2451.9	2441.4	2437.2
15°	2429.8	2404.4	2414.7	2405.9	2401.7
17.5°	2386.5	2359.5	2369.7	2359.6	2354.1
20°	2351.9	2326.5	2336.8	2321.6	2319.5
22.5°	2313.8	2288.4	2298.7	2278.3	2277.9
25°	2252.4	2224.9	2237.2	2213.4	2211.3
27.5°	2179.3	2153.9	2164.1	2139.8	2137.3
30°	2129.1	2103.7	2113.9	2087.9	2083.6
32.5°	2071.9	2048.2	2056.8	2030.8	2028.2
35°	1984.1	1960.8	1966.8	1940.8	1938.7
37.5°	1884.1	1863.0	1866.4	1837.8	1835.7
40°	1813.2	1792.0	1793.7	1763.3	1761.2
42.5°	1735.3	1714.1	1712.3	1682.0	1679.9
45°	1605.4	1584.3	1577.3	1549.1	1544.9
47.5°	1457.5	1436.3	1423.3	1400.3	1397.3
50°	1350.1	1329.0	1317.7	1298.1	1291.7
52.5°	1234.2	1213.0	1203.4	1185.6	1179.2
55°	1051.5	1034.6	1027.7	1010.3	1006.1
57.5°	878.0	866.6	864.6	847.7	846.0
60°	772.4	766.1	765.9	750.8	750.8
62.5°	682.4	677.8	681.1	671.1	669.4
65°	564.7	560.5	566.9	562.6	562.6
67.5°	471.7	471.7	475.6	473.8	473.8
70°	419.8	419.8	421.9	421.9	421.9
72.5°	373.0	371.3	376.9	376.9	375.2
75°	305.1	305.1	305.1	307.2	307.2
77.5°	237.6	238.0	239.7	239.3	237.6
80°	192.6	194.7	194.7	192.6	192.6
82.5°	147.6	149.7	149.7	149.3	147.6
85°	77.9	82.1	86.5	86.5	86.5
87.5°	23.0	30.8	38.0	38.2	36.3
90°	2.6	7.7	17.0	18.2	17.0
92.5°	37.0	135.0	266.3	115.6	83.7
95°	87.4	306.7	936.4	484.6	288.2
97.5°	140.3	351.8	1459.6	1207.9	887.1
100°	180.0	370.0	1622.4	1692.0	1368.1
102.5°	216.5	395.3	1679.8	2059.0	1816.7
105°	283.0	437.3	1688.9	2491.2	2389.2
107.5°	344.6	485.3	1615.1	2760.9	2794.8
110°	392.6	520.1	1549.3	2833.3	2977.4



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**CANDELA DISTRIBUTION (continued):**

	0°	22.5°	45°	67.5°	90°
112.5°	435.3	554.7	1488.8	2818.8	3060.9
115°	498.2	609.1	1400.7	2711.5	3060.9
117.5°	559.7	663.8	1342.5	2547.4	2943.5
120°	597.3	699.3	1308.1	2429.7	2833.9
122.5°	632.8	732.8	1287.2	2303.5	2710.8
125°	682.1	781.5	1262.4	2130.3	2502.7
127.5°	727.5	825.1	1247.8	1989.0	2316.4
130°	752.5	853.2	1241.6	1901.7	2197.5
132.5°	778.6	878.3	1235.3	1822.9	2095.3
135°	817.7	914.6	1228.5	1720.1	1947.1
137.5°	857.1	948.6	1222.8	1636.7	1821.6
140°	884.2	969.7	1220.7	1583.1	1747.6
142.5°	910.3	990.6	1216.5	1534.6	1678.7
145°	950.7	1022.1	1211.6	1472.3	1584.6
147.5°	987.5	1050.8	1205.8	1415.9	1502.1
150°	1014.6	1070.7	1203.7	1385.3	1454.1
152.5°	1039.7	1088.6	1202.7	1356.8	1413.4
155°	1073.3	1115.4	1201.1	1320.8	1364.1
157.5°	1108.3	1137.6	1201.4	1295.7	1324.2
160°	1128.1	1152.3	1202.4	1279.8	1300.2
162.5°	1143.7	1163.9	1203.5	1267.2	1282.5
165°	1168.5	1180.0	1206.3	1253.4	1259.8
167.5°	1185.5	1193.4	1206.6	1241.6	1244.7
170°	1195.9	1199.7	1207.6	1236.3	1236.3
172.5°	1204.3	1205.0	1207.6	1230.1	1229.0
175°	1212.9	1211.6	1207.6	1223.2	1220.7
177.5°	1215.7	1212.7	1207.4	1217.8	1214.7
180°	1211.6	1211.6	1211.6	1211.6	1211.6

(END OF REPORT)