

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: P563212

Luminaire Tested: **SQ4-PP3-025U-075D-840-1D-UNV-STD-W-8**

Issue Date: 7/30/2021

**Test Information**

Test Method: LM-79-2019  
Report Number: P563212  
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1910-536-32, G2-2103-172-1)  
Test Lab: INNOVATION CENTER  
Issue Date: 7/30/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: CORELITE  
Catalog Number: SQ4-PP3-025U-075D-840-1D-UNV-STD-W-8  
Description: CORELITE SQ4 SUSPENDED LED LUMINAIRE WITH PERCEIVE PRISM CONTINUOUS LENS.  
DOWNLIGHT 750 LUMENS PER FOOT  
UPLIGHT 250 LUMENS PER FOOT  
Light Source: 4000K CCT, 80 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

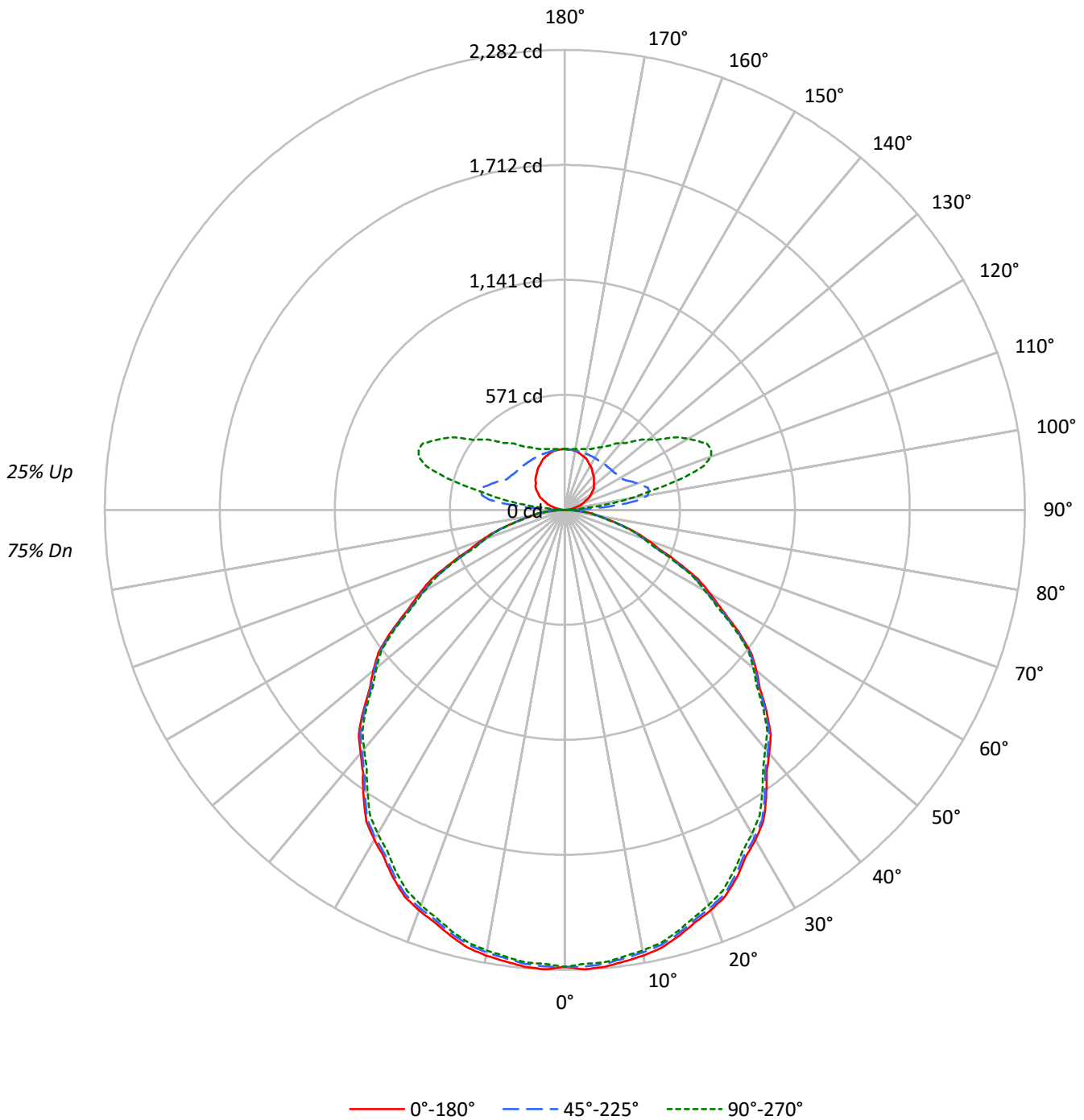
Lumens per Lamp: N/A  
Luminaire Lumens: 7756.9 lumens  
Efficiency: N/A  
Efficacy: 119.5 lumens/watt  
Spacing Criteria (0/90/45): 1.24 / 1.22 / 1.33  
Luminous Opening: Rectangular (W 0.29' x L: 8' x H: 0')  
CIE Type: Semi-Direct

Input Watts (W): 64.9  
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	113	113	113	113	108	108	108	108	97	97	97	88	88	88	79	79	79	75
1	104	99	95	92	98	95	91	88	86	83	81	78	76	74	70	69	67	64
2	95	87	81	76	90	83	77	73	76	71	67	69	65	62	62	60	57	54
3	87	77	69	63	82	73	67	61	67	61	57	61	57	53	55	52	49	46
4	79	68	60	54	75	65	58	52	60	54	49	54	49	45	50	46	42	39
5	73	61	53	46	69	58	51	45	54	47	42	49	44	40	45	40	37	34
6	67	55	46	40	64	53	45	39	48	42	37	44	39	35	41	36	33	30
7	62	50	41	36	59	48	40	35	44	37	33	40	35	31	37	33	29	27
8	58	45	37	32	55	44	36	31	40	34	29	37	32	28	34	29	26	24
9	54	41	34	28	51	40	33	28	37	31	26	34	29	25	32	27	24	22
10	51	38	31	26	48	37	30	25	34	28	24	32	26	23	29	25	21	20

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

	0°	45°	90°
0°	10461	10461	10461
5°	10538	10473	10437
10°	10520	10445	10399
15°	10450	10394	10336
20°	10381	10322	10244
25°	10258	10187	10086
30°	10068	10015	9888
35°	9805	9738	9614
40°	9491	9431	9323
45°	9232	9167	9076
50°	8901	8843	8758
55°	8440	8328	8264
60°	7683	7463	7426
65°	6769	6486	6465
70°	5844	5603	5603
75°	5030	4959	4889
80°	4434	4487	4383
85°	3472	3784	3784



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	214.4	2.8
10°-20°	612.3	7.9
20°-30°	917.1	11.8
30°-40°	1075.7	13.9
40°-50°	1079.1	13.9
50°-60°	920.5	11.9
60°-70°	600.4	7.7
70°-80°	301.2	3.9
80°-90°	85.0	1.1
90°-100°	146.7	1.9
100°-110°	385.7	5.0
110°-120°	400.0	5.2
120°-130°	320.8	4.1
130°-140°	251.7	3.2
140°-150°	193.2	2.5
150°-160°	139.2	1.8
160°-170°	85.1	1.1
170°-180°	28.8	0.4
0°-30°	1743.8	22.5
0°-40°	2819.5	36.3
0°-60°	4819.1	62.1
0°-90°	5805.6	74.8
90°-120°	932.4	12.0
90°-150°	1698.2	21.9
90°-180°	1951.0	25.2
0°-180°	7756.9	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	2268	2268	2268	2268	2268	
5°	2276	2254	2262	2254	2254	216
15°	2188	2167	2176	2168	2164	617
25°	2015	1992	2001	1983	1982	927
35°	1741	1724	1729	1709	1707	1088
45°	1415	1405	1405	1391	1391	1090
55°	1049	1046	1036	1030	1028	933
65°	620	608	594	590	592	619
75°	282	282	278	276	274	306
85°	66	71	72	72	72	77
90°	2	6	15	8	8	4
95°	19	76	253	130	89	22
105°	70	105	426	647	604	74
115°	124	150	342	682	778	122
125°	172	192	311	525	620	152
135°	205	225	301	424	480	158
145°	237	252	297	362	390	149
155°	268	276	297	326	336	123
165°	290	293	297	309	313	82
175°	301	301	299	303	303	29
180°	301	301	301	301	301	

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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	2267.7	2267.7	2267.7	2267.7	2267.7
2.5°	2282.0	2263.3	2267.7	2264.3	2255.0
5°	2275.6	2254.3	2261.7	2253.8	2253.8
7.5°	2260.1	2236.8	2244.2	2236.3	2235.9
10°	2245.8	2222.5	2229.9	2221.9	2220.0
12.5°	2225.2	2201.8	2210.8	2201.3	2200.9
15°	2188.2	2166.8	2176.3	2168.2	2164.3
17.5°	2146.5	2123.1	2134.5	2123.4	2121.8
20°	2114.7	2091.3	2102.7	2086.8	2086.8
22.5°	2076.5	2053.2	2066.2	2045.5	2045.5
25°	2015.3	1992.0	2001.4	1983.4	1981.5
27.5°	1942.5	1919.6	1929.4	1909.1	1908.8
30°	1890.1	1868.7	1880.1	1858.2	1856.3
32.5°	1832.8	1813.0	1821.3	1799.4	1797.5
35°	1741.0	1723.5	1729.1	1709.2	1707.2
37.5°	1644.4	1626.5	1632.9	1615.8	1615.0
40°	1576.1	1564.4	1566.1	1552.1	1548.2
42.5°	1512.5	1499.2	1500.9	1487.0	1486.2
45°	1415.1	1405.4	1405.1	1391.2	1391.2
47.5°	1311.7	1304.3	1302.2	1290.6	1290.3
50°	1240.2	1234.3	1232.2	1222.2	1220.3
52.5°	1165.4	1162.7	1155.9	1147.5	1147.2
55°	1049.4	1045.5	1035.5	1029.5	1027.5
57.5°	923.4	915.6	904.3	895.6	897.1
60°	832.7	825.0	808.9	804.9	804.9
62.5°	745.3	736.0	719.9	714.4	717.5
65°	620.1	608.4	594.2	590.3	592.3
67.5°	506.4	495.9	480.6	480.5	479.0
70°	433.3	427.4	415.4	415.4	415.4
72.5°	368.1	365.4	356.5	356.5	355.0
75°	282.2	282.2	278.2	276.2	274.3
77.5°	211.5	212.2	210.3	208.2	204.7
80°	166.9	170.8	168.9	166.9	165.0
82.5°	125.6	129.5	129.2	125.6	125.2
85°	65.6	71.4	71.5	71.5	71.5
87.5°	17.9	24.8	28.5	27.0	28.6
90°	1.9	5.7	15.4	7.7	7.7
92.5°	8.1	39.1	86.5	38.3	24.7
95°	19.3	75.9	252.8	130.3	88.8
97.5°	33.6	83.4	378.2	300.8	221.5
100°	44.4	89.7	416.8	422.4	328.1
102.5°	53.6	95.9	427.6	526.2	445.4
105°	69.5	105.3	426.5	647.4	604.0
107.5°	85.7	118.9	402.2	710.4	721.0
110°	96.5	126.7	382.1	726.6	771.9

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**CANDELA DISTRIBUTION (continued):**

	0°	22.5°	45°	67.5°	90°
112.5°	107.3	136.0	363.6	716.4	785.8
115°	123.5	149.9	341.6	681.5	777.7
117.5°	139.3	163.5	326.5	633.1	739.9
120°	148.6	171.2	320.3	600.6	704.4
122.5°	157.9	180.5	315.7	568.1	670.4
125°	171.8	192.5	310.7	525.1	619.5
127.5°	182.9	204.1	306.5	490.4	570.1
130°	189.1	211.8	304.9	468.7	542.3
132.5°	195.3	217.9	303.4	450.0	516.0
135°	204.6	225.3	301.0	423.9	480.5
137.5°	214.2	234.6	300.7	404.4	450.8
140°	221.9	240.8	299.1	388.9	432.3
142.5°	228.1	245.5	299.1	377.9	415.3
145°	237.4	252.5	297.2	361.5	389.8
147.5°	246.6	261.3	297.2	347.9	371.3
150°	252.8	266.0	297.2	340.1	358.9
152.5°	259.0	269.2	297.2	333.8	348.1
155°	268.2	275.8	297.2	326.4	335.8
157.5°	275.2	282.4	297.2	319.7	326.5
160°	279.8	285.5	297.2	316.6	320.3
162.5°	284.5	288.6	297.2	313.5	317.3
165°	289.5	293.2	297.2	308.9	312.6
167.5°	294.1	296.0	299.1	306.9	308.4
170°	297.2	299.1	299.1	306.8	306.8
172.5°	298.7	299.1	299.1	305.3	303.8
175°	301.0	301.0	299.1	303.0	303.0
177.5°	301.0	301.0	299.5	302.6	301.0
180°	301.0	301.0	301.0	301.0	301.0

(END OF REPORT)