

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: P561927

Luminaire Tested: **SQ4-PR1-075U-125D-92765-1D-UNV-STD-W-4 (6500K)**

Issue Date: 7/30/2021

**Test Information**

Test Method: LM-79-2019  
Report Number: P561927  
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2101-105-51, 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-92765-1D-UNV-STD-W-4 (6500K)  
Description: CORELITE SQ4 SUSPENDED LED LUMINAIRE WITH PERCEIVE RIPPLE CONTINUOUS LENS  
DOWNLIGHT 1250 LUMENS PER FOOT  
UPLIGHT 750 LUMENS PER FOOT  
Light Source: 2700K/65000K CCT, 90 CRI LEDS, TUNED TO 6500K CCT  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

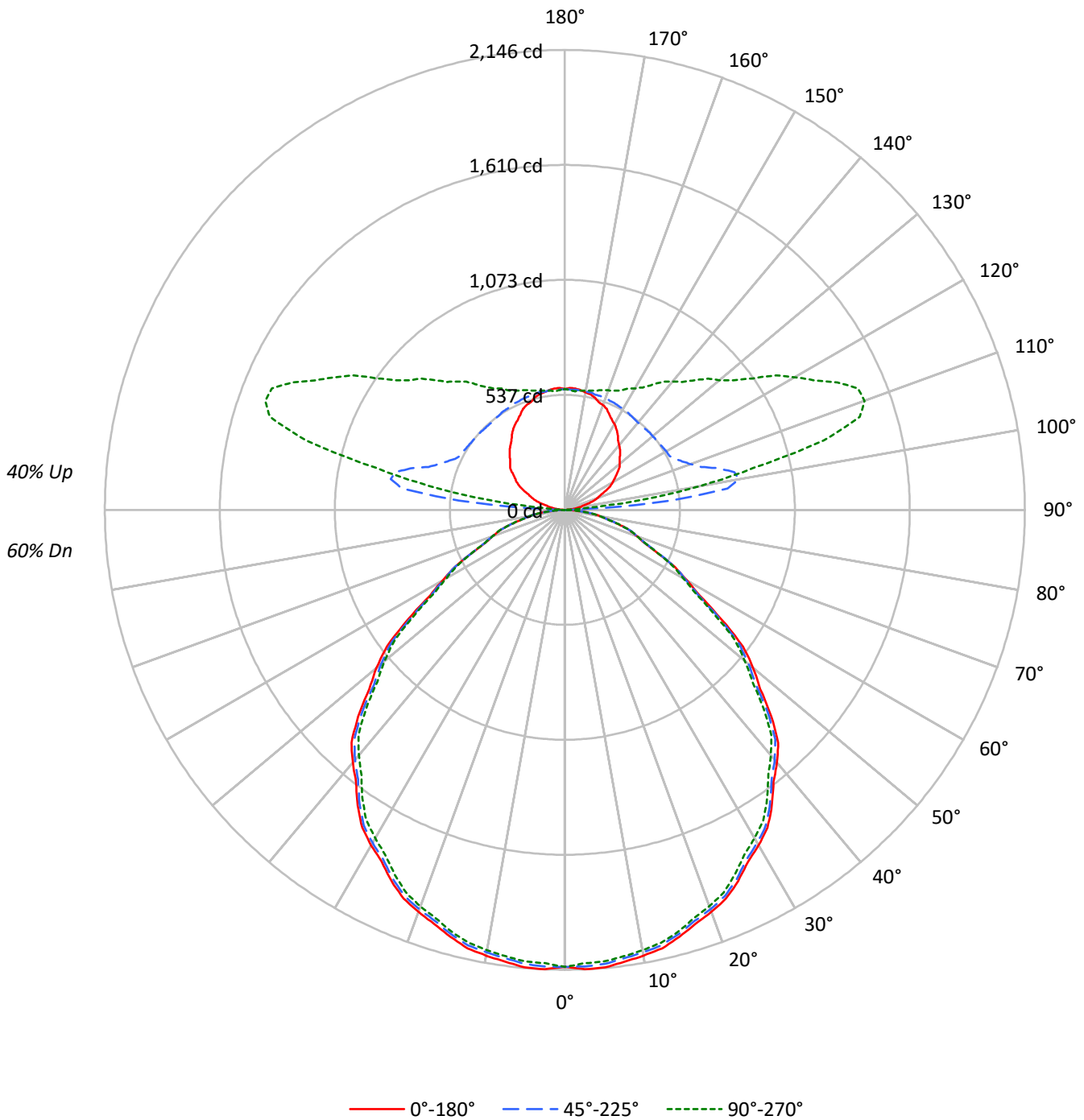
Lumens per Lamp: N/A  
Luminaire Lumens: 8830.5 lumens  
Efficiency: N/A  
Efficacy: 111.9 lumens/watt  
Spacing Criteria (0/90/45): 1.26 / 1.24 / 1.35  
Luminous Opening: Rectangular (W 0.29' x L: 4' x H: 0')  
CIE Type: Semi-Direct

Input Watts (W): 78.9  
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	110	110	110	110	102	102	102	102	89	89	89	77	77	77	66	66	66	60
1	100	96	92	89	94	90	87	84	79	76	74	68	66	65	59	57	56	52
2	92	84	78	73	86	79	74	69	69	65	62	60	57	55	52	50	48	44
3	84	75	67	61	78	70	64	58	62	57	52	54	50	47	46	44	41	37
4	77	66	58	52	72	62	55	50	55	49	45	48	44	40	42	38	36	32
5	71	59	51	45	66	56	48	43	49	43	39	43	39	35	38	34	31	28
6	65	53	45	39	61	50	43	38	45	39	34	39	34	31	34	31	28	25
7	60	48	40	35	56	45	38	33	40	35	30	36	31	27	31	28	25	22
8	56	44	36	31	53	41	34	29	37	31	27	33	28	25	29	25	22	20
9	52	40	33	27	49	38	31	26	34	28	24	30	25	22	27	23	20	18
10	49	37	30	25	46	35	28	24	31	26	22	28	23	20	25	21	18	16

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

	0°	45°	90°
0°	19674	19674	19674
5°	19851	19698	19595
10°	19788	19650	19547
15°	19701	19578	19473
20°	19602	19476	19331
25°	19464	19333	19109
30°	19254	19117	18843
35°	18969	18804	18536
40°	18537	18338	18007
45°	17782	17470	17111
50°	16450	16054	15739
55°	14358	14033	13739
60°	12099	11998	11760
65°	10466	10505	10424
70°	9611	9663	9663
75°	9233	9233	9297
80°	8687	8783	8687
85°	6997	7781	7781



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	201.7	2.3
10°-20°	576.9	6.5
20°-30°	870.2	9.9
30°-40°	1036.8	11.7
40°-50°	1022.2	11.6
50°-60°	781.2	8.8
60°-70°	483.5	5.5
70°-80°	274.6	3.1
80°-90°	83.5	0.9
90°-100°	256.7	2.9
100°-110°	730.5	8.3
110°-120°	699.9	7.9
120°-130°	553.9	6.3
130°-140°	444.6	5.0
140°-150°	348.1	3.9
150°-160°	254.7	2.9
160°-170°	157.8	1.8
170°-180°	53.5	0.6
0°-30°	1648.8	18.7
0°-40°	2685.6	30.4
0°-60°	4489.1	50.8
0°-90°	5330.7	60.4
90°-120°	1687.1	19.1
90°-150°	3033.8	34.4
90°-180°	3500.0	39.6
0°-180°	8830.5	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	2132	2132	2132	2132	2132	
5°	2143	2120	2127	2119	2116	203
15°	2063	2041	2050	2042	2039	582
25°	1912	1889	1899	1879	1877	880
35°	1684	1664	1670	1648	1646	1051
45°	1363	1345	1339	1315	1311	1044
55°	893	878	872	858	854	800
65°	479	476	481	478	478	486
75°	259	259	259	261	261	274
85°	66	70	74	74	74	77
90°	0	0	0	0	0	4
95°	28	111	497	172	106	32
105°	114	172	744	1315	1250	120
115°	211	255	564	1196	1404	208
125°	298	330	539	894	1069	267
135°	364	395	532	755	854	281
145°	430	452	537	654	712	268
155°	491	502	550	591	615	227
165°	542	544	556	568	576	152
175°	568	565	562	559	555	54
180°	563	563	563	563	563	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	2132.4	2132.4	2132.4	2132.4	2132.4
2.5°	2145.6	2126.9	2132.4	2127.7	2117.7
5°	2143.4	2120.1	2126.9	2119.4	2115.8
7.5°	2126.9	2103.9	2110.7	2103.3	2101.2
10°	2112.2	2090.6	2097.5	2090.1	2086.5
12.5°	2096.0	2073.0	2081.3	2072.4	2068.8
15°	2062.6	2041.0	2049.7	2042.3	2038.7
17.5°	2025.9	2002.9	2011.5	2003.0	1998.3
20°	1996.5	1974.9	1983.6	1970.7	1968.9
22.5°	1964.1	1942.6	1951.3	1934.0	1933.7
25°	1912.0	1888.6	1899.1	1878.9	1877.1
27.5°	1849.9	1828.3	1837.0	1816.4	1814.3
30°	1807.3	1785.7	1794.4	1772.3	1768.7
32.5°	1758.8	1738.7	1745.9	1723.9	1721.7
35°	1684.2	1664.5	1669.5	1647.5	1645.7
37.5°	1599.4	1581.4	1584.3	1560.0	1558.2
40°	1539.1	1521.2	1522.6	1496.8	1495.1
42.5°	1473.0	1455.1	1453.5	1427.8	1426.0
45°	1362.8	1344.9	1338.9	1315.0	1311.4
47.5°	1237.2	1219.2	1208.2	1188.6	1186.1
50°	1146.1	1128.1	1118.5	1101.9	1096.5
52.5°	1047.6	1029.7	1021.6	1006.4	1001.0
55°	892.6	878.3	872.4	857.6	854.1
57.5°	745.3	735.6	733.9	719.6	718.1
60°	655.7	650.3	650.2	637.3	637.3
62.5°	579.3	575.3	578.2	569.7	568.3
65°	479.4	475.8	481.2	477.5	477.5
67.5°	400.4	400.4	403.7	402.2	402.2
70°	356.3	356.3	358.2	358.2	358.2
72.5°	316.6	315.2	319.9	319.9	318.5
75°	259.0	259.0	259.0	260.8	260.8
77.5°	201.7	202.0	203.5	203.1	201.7
80°	163.5	165.3	165.3	163.5	163.5
82.5°	125.3	127.1	127.1	126.7	125.3
85°	66.1	69.7	73.5	73.5	73.5
87.5°	19.1	24.8	29.4	29.4	27.9
90°	0.0	0.0	0.0	0.0	0.0
92.5°	8.6	45.4	105.4	30.7	23.1
95°	27.8	110.6	497.0	172.0	106.0
97.5°	51.2	129.5	765.4	547.7	375.3
100°	67.5	140.8	823.7	834.3	642.7
102.5°	85.5	152.9	810.8	1068.0	900.6
105°	113.5	172.2	744.4	1314.9	1250.0
107.5°	142.0	194.6	666.9	1384.6	1442.4
110°	161.7	211.0	622.3	1357.9	1487.8

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**CANDELA DISTRIBUTION (continued):**

	0°	22.5°	45°	67.5°	90°
112.5°	180.6	227.3	592.3	1294.9	1480.1
115°	211.0	255.0	564.5	1195.8	1404.3
117.5°	237.8	279.1	548.0	1087.5	1308.3
120°	259.2	293.8	546.3	1025.6	1237.2
122.5°	276.4	310.9	542.0	971.3	1167.7
125°	297.8	330.2	538.8	894.1	1069.0
127.5°	321.1	351.5	537.1	848.0	992.1
130°	333.1	363.5	534.5	815.8	941.5
132.5°	346.0	375.5	534.5	790.8	906.4
135°	364.2	394.6	532.4	755.2	853.7
137.5°	381.3	410.9	532.1	725.2	810.2
140°	394.2	424.5	531.3	700.2	781.9
142.5°	408.7	434.1	533.9	680.3	753.6
145°	429.5	451.5	536.6	653.7	712.3
147.5°	447.3	468.7	541.4	626.7	677.4
150°	462.7	477.4	543.1	617.8	653.4
152.5°	474.7	490.2	544.8	605.7	638.8
155°	490.6	502.1	549.5	590.7	614.8
157.5°	510.3	517.2	550.6	583.9	601.1
160°	520.6	525.8	554.8	578.7	593.4
162.5°	526.6	532.6	555.7	574.4	585.7
165°	542.0	544.1	555.9	567.9	576.3
167.5°	552.5	550.6	560.8	566.3	569.6
170°	555.9	554.9	559.1	560.3	564.5
172.5°	563.6	560.1	561.7	558.6	561.9
175°	567.7	564.6	562.3	559.0	554.8
177.5°	569.4	564.4	561.7	558.3	559.1
180°	563.4	563.4	563.4	563.4	563.4

(END OF REPORT)