

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: P561875

Luminaire Tested: **SQ4-PR1-050U-125D-92765-1D-UNV-STD-W-4 (6500K)**

Issue Date: 7/30/2021

**Test Information**

Test Method: LM-79-2019  
Report Number: P561875  
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-PR1-050U-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 500 LUMENS PER FOOT  
Light Source: 2700K/65000K CCT, 90 CRI LEDS, TUNED TO 6500K CCT  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

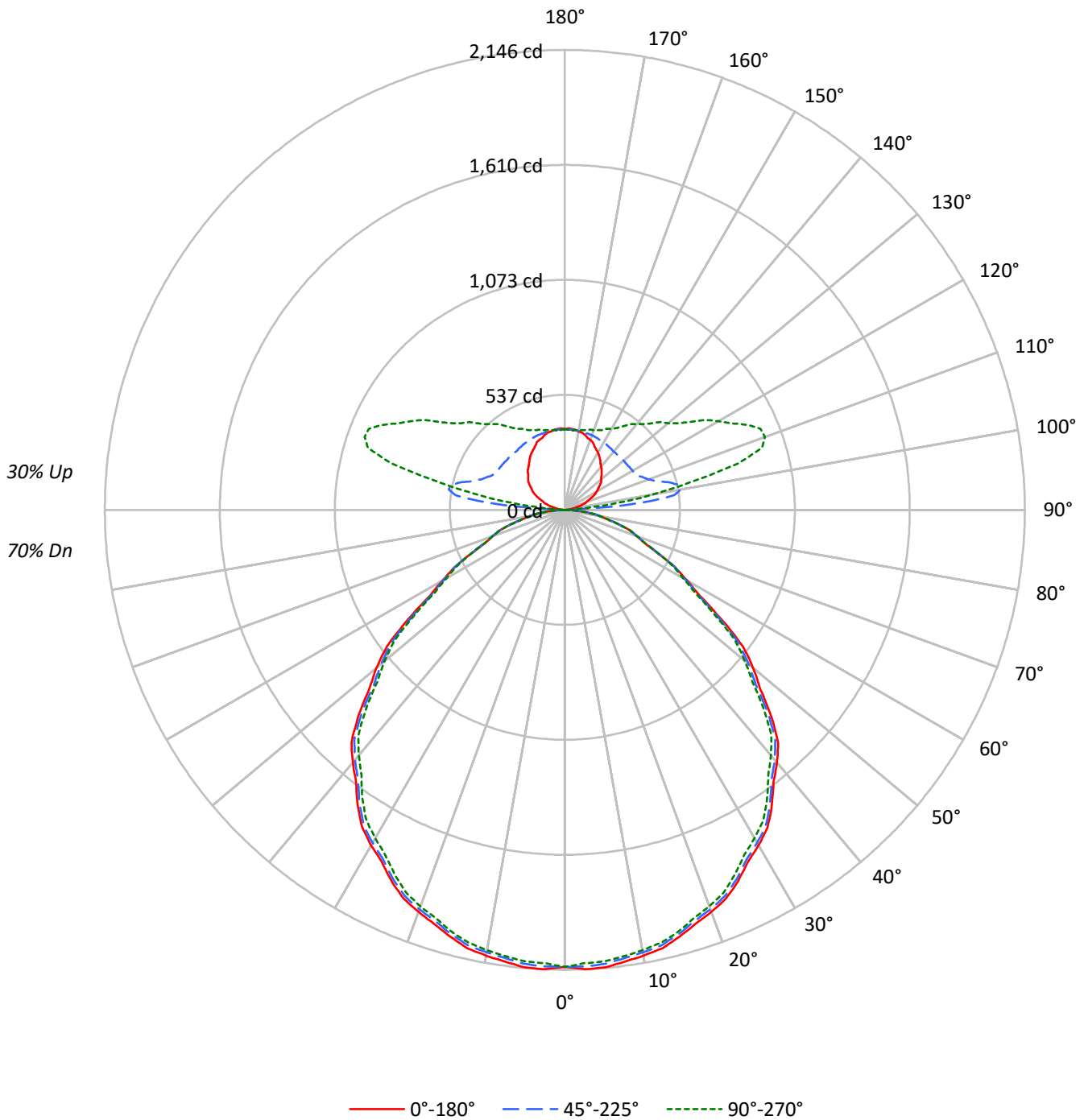
Lumens per Lamp: N/A  
Luminaire Lumens: 7668.7 lumens  
Efficiency: N/A  
Efficacy: 107.9 lumens/watt  
Spacing Criteria (0/90/45): 1.26 / 1.24 / 1.35  
Luminous Opening: Rectangular (W 0.29' x L: 4' x H: 0')  
CIE Type: Semi-Direct

Input Watts (W): 71.1  
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	0
RCR																		
0	112	112	112	112	106	106	106	106	94	94	94	84	84	84	74	74	74	70
1	103	98	94	91	97	93	90	87	83	81	78	74	72	71	66	65	63	59
2	94	86	80	75	88	82	76	72	74	69	66	66	63	60	59	56	54	50
3	86	76	69	63	81	72	66	60	65	60	56	59	54	51	52	49	46	43
4	79	68	60	54	74	64	57	52	58	52	48	52	48	44	47	43	40	37
5	72	61	52	46	68	58	50	45	52	46	42	47	42	38	43	39	35	33
6	67	55	46	40	63	52	45	39	47	41	36	43	38	34	39	34	31	29
7	62	50	41	36	59	47	40	35	43	37	32	39	34	30	35	31	28	26
8	58	45	37	32	54	43	36	31	39	33	29	36	31	27	33	28	25	23
9	54	41	34	28	51	40	32	28	36	30	26	33	28	24	30	26	23	21
10	50	38	31	26	48	36	30	25	33	28	24	31	26	22	28	24	21	19

**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	2.6
10°-20°	576.9	7.5
20°-30°	870.2	11.3
30°-40°	1036.8	13.5
40°-50°	1022.2	13.3
50°-60°	781.2	10.2
60°-70°	483.5	6.3
70°-80°	274.6	3.6
80°-90°	83.5	1.1
90°-100°	171.5	2.2
100°-110°	488.0	6.4
110°-120°	467.6	6.1
120°-130°	370.1	4.8
130°-140°	297.0	3.9
140°-150°	232.5	3.0
150°-160°	170.1	2.2
160°-170°	105.4	1.4
170°-180°	35.8	0.5
0°-30°	1648.8	21.5
0°-40°	2685.6	35.0
0°-60°	4489.1	58.5
0°-90°	5330.7	69.5
90°-120°	1127.1	14.7
90°-150°	2026.7	26.4
90°-180°	2338.0	30.5
0°-180°	7668.7	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	3
95°	19	74	332	115	71	21
105°	76	115	497	878	835	80
115°	141	170	377	799	938	139
125°	199	221	360	597	714	178
135°	243	264	356	504	570	188
145°	287	302	358	437	476	179
155°	328	335	367	395	411	151
165°	362	364	371	379	385	102
175°	379	377	376	374	371	36
180°	376	376	376	376	376	

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CATALOG NUMBER: SQ4-PR1-050U-125D-92765-1D-UNV-STD-W-4 (6500K)

**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°	5.7	30.4	70.4	20.5	15.5
95°	18.6	73.9	332.0	114.9	70.8
97.5°	34.2	86.5	511.3	365.9	250.7
100°	45.1	94.1	550.3	557.4	429.3
102.5°	57.1	102.2	541.7	713.5	601.6
105°	75.8	115.0	497.3	878.4	835.1
107.5°	94.9	130.0	445.5	925.0	963.6
110°	108.1	140.9	415.7	907.2	993.9

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**CANDELA DISTRIBUTION (continued):**

	0°	22.5°	45°	67.5°	90°
112.5°	120.6	151.8	395.7	865.1	988.8
115°	141.0	170.4	377.1	798.9	938.1
117.5°	158.9	186.4	366.1	726.5	874.0
120°	173.2	196.3	364.9	685.1	826.5
122.5°	184.6	207.7	362.1	648.9	780.1
125°	198.9	220.6	359.9	597.3	714.1
127.5°	214.5	234.8	358.8	566.5	662.8
130°	222.5	242.8	357.1	545.0	629.0
132.5°	231.1	250.9	357.1	528.3	605.5
135°	243.3	263.6	355.6	504.5	570.3
137.5°	254.7	274.5	355.5	484.4	541.3
140°	263.3	283.6	354.9	467.8	522.4
142.5°	273.1	290.0	356.6	454.5	503.5
145°	286.9	301.6	358.5	436.7	475.8
147.5°	298.8	313.1	361.6	418.7	452.5
150°	309.1	318.9	362.8	412.7	436.5
152.5°	317.1	327.5	363.9	404.7	426.8
155°	327.7	335.4	367.1	394.6	410.7
157.5°	340.9	345.5	367.8	390.1	401.6
160°	347.8	351.3	370.7	386.6	396.4
162.5°	351.8	355.8	371.2	383.7	391.3
165°	362.1	363.5	371.4	379.4	385.0
167.5°	369.1	367.8	374.7	378.3	380.5
170°	371.4	370.7	373.5	374.3	377.1
172.5°	376.5	374.2	375.2	373.1	375.4
175°	379.2	377.1	375.7	373.5	370.7
177.5°	380.4	377.0	375.2	373.0	373.5
180°	376.4	376.4	376.4	376.4	376.4

(END OF REPORT)