

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: P561924

Luminaire Tested: **SQ4-PR1-075U-125D-92765-1D-UNV-STD-W-4 (4500K)**

Issue Date: 7/30/2021

**Test Information**

Test Method: LM-79-2019  
Report Number: P561924  
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 (4500K)  
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 4500K CCT  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 8530.3 lumens  
Efficiency: N/A  
Efficacy: 107.4 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

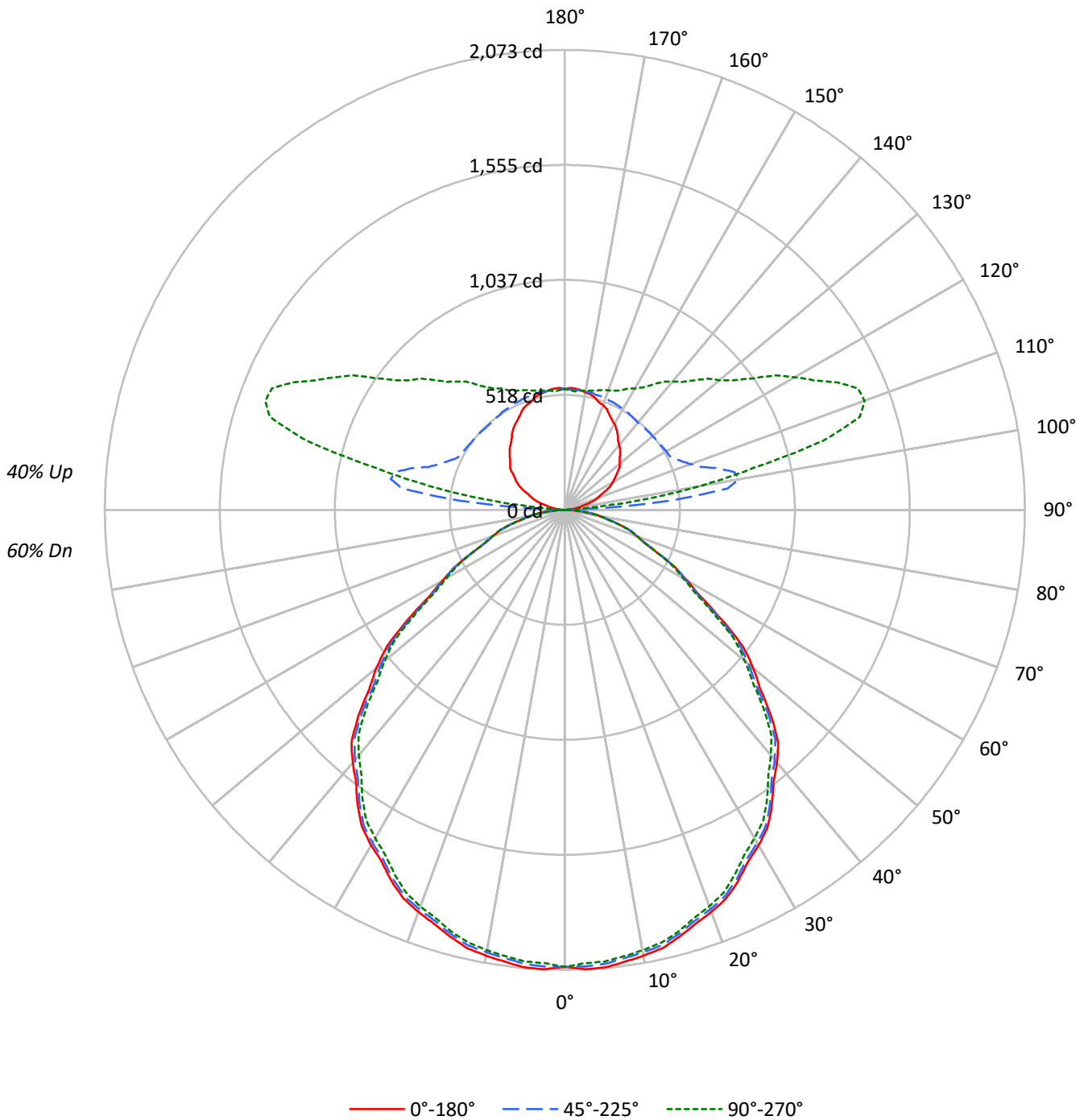
Input Watts (W): 79.4  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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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°	19005	19005	19005
5°	19176	19029	18929
10°	19116	18983	18882
15°	19032	18913	18811
20°	18936	18814	18674
25°	18802	18676	18459
30°	18600	18467	18203
35°	18325	18165	17905
40°	17907	17714	17394
45°	17177	16876	16529
50°	15891	15509	15203
55°	13870	13557	13270
60°	11688	11590	11361
65°	10110	10149	10071
70°	9285	9334	9334
75°	8919	8919	8980
80°	8389	8485	8389
85°	6764	7516	7516



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	194.8	2.3
10°-20°	557.3	6.5
20°-30°	840.6	9.9
30°-40°	1001.6	11.7
40°-50°	987.5	11.6
50°-60°	754.7	8.8
60°-70°	467.0	5.5
70°-80°	265.3	3.1
80°-90°	80.7	0.9
90°-100°	248.0	2.9
100°-110°	705.7	8.3
110°-120°	676.1	7.9
120°-130°	535.1	6.3
130°-140°	429.5	5.0
140°-150°	336.2	3.9
150°-160°	246.0	2.9
160°-170°	152.4	1.8
170°-180°	51.7	0.6
0°-30°	1592.8	18.7
0°-40°	2594.4	30.4
0°-60°	4336.5	50.8
0°-90°	5149.5	60.4
90°-120°	1629.8	19.1
90°-150°	2930.6	34.4
90°-180°	3381.0	39.6
0°-180°	8530.3	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	2060	2060	2060	2060	2060	
5°	2070	2048	2055	2047	2044	196
15°	1992	1972	1980	1973	1969	562
25°	1847	1824	1835	1815	1813	850
35°	1627	1608	1613	1592	1590	1015
45°	1316	1299	1293	1270	1267	1009
55°	862	848	843	828	825	773
65°	463	460	465	461	461	469
75°	250	250	250	252	252	264
85°	64	67	71	71	71	74
90°	0	0	0	0	0	4
95°	27	107	480	166	102	31
105°	110	166	719	1270	1208	116
115°	204	246	545	1155	1356	201
125°	288	319	520	864	1033	257
135°	352	381	514	730	825	271
145°	415	436	518	631	688	259
155°	474	485	531	571	594	219
165°	524	526	537	549	557	147
175°	548	545	543	540	536	52
180°	544	544	544	544	544	

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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	2059.9	2059.9	2059.9	2059.9	2059.9
2.5°	2072.7	2054.6	2059.9	2055.4	2045.7
5°	2070.5	2048.0	2054.6	2047.4	2043.9
7.5°	2054.6	2032.4	2039.0	2031.8	2029.7
10°	2040.4	2019.6	2026.2	2019.0	2015.5
12.5°	2024.8	2002.6	2010.6	2002.0	1998.5
15°	1992.5	1971.7	1980.1	1972.9	1969.4
17.5°	1957.0	1934.8	1943.1	1934.9	1930.4
20°	1928.6	1907.8	1916.2	1903.7	1902.0
22.5°	1897.4	1876.6	1885.0	1868.3	1867.9
25°	1847.0	1824.4	1834.6	1815.0	1813.3
27.5°	1787.0	1766.2	1774.6	1754.7	1752.6
30°	1745.9	1725.0	1733.4	1712.1	1708.6
32.5°	1699.0	1679.6	1686.6	1665.3	1663.2
35°	1627.0	1607.9	1612.8	1591.5	1589.7
37.5°	1545.0	1527.7	1530.5	1507.0	1505.3
40°	1486.8	1469.5	1470.8	1446.0	1444.2
42.5°	1422.9	1405.6	1404.1	1379.3	1377.5
45°	1316.5	1299.1	1293.4	1270.3	1266.8
47.5°	1195.1	1177.8	1167.1	1148.2	1145.8
50°	1107.1	1089.8	1080.5	1064.4	1059.2
52.5°	1012.0	994.7	986.8	972.2	967.0
55°	862.3	848.4	842.8	828.5	825.0
57.5°	720.0	710.6	709.0	695.1	693.7
60°	633.4	628.2	628.1	615.7	615.7
62.5°	559.6	555.8	558.5	550.3	548.9
65°	463.1	459.6	464.9	461.3	461.3
67.5°	386.8	386.8	390.0	388.6	388.6
70°	344.2	344.2	346.0	346.0	346.0
72.5°	305.9	304.5	309.1	309.0	307.7
75°	250.2	250.2	250.2	251.9	251.9
77.5°	194.8	195.2	196.6	196.2	194.8
80°	157.9	159.6	159.7	157.9	157.9
82.5°	121.0	122.7	122.8	122.4	121.0
85°	63.9	67.3	71.0	71.0	71.0
87.5°	18.5	24.0	28.4	28.4	27.0
90°	0.0	0.0	0.0	0.0	0.0
92.5°	8.3	43.9	101.8	29.6	22.3
95°	26.9	106.8	480.1	166.2	102.4
97.5°	49.5	125.1	739.4	529.1	362.6
100°	65.2	136.0	795.7	806.0	620.8
102.5°	82.6	147.7	783.3	1031.7	870.0
105°	109.7	166.3	719.1	1270.2	1207.5
107.5°	137.2	188.0	644.2	1337.5	1393.4
110°	156.2	203.8	601.2	1311.8	1437.2

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**CANDELA DISTRIBUTION (continued):**

	0°	22.5°	45°	67.5°	90°
112.5°	174.5	219.6	572.2	1250.9	1429.8
115°	203.8	246.3	545.3	1155.2	1356.5
117.5°	229.7	269.6	529.4	1050.5	1263.8
120°	250.4	283.8	527.7	990.7	1195.1
122.5°	267.0	300.3	523.6	938.3	1128.1
125°	287.7	319.0	520.5	863.7	1032.7
127.5°	310.2	339.5	518.8	819.1	958.4
130°	321.8	351.1	516.3	788.1	909.5
132.5°	334.2	362.7	516.3	763.9	875.6
135°	351.8	381.1	514.3	729.6	824.7
137.5°	368.4	396.9	514.0	700.5	782.7
140°	380.8	410.1	513.2	676.4	755.3
142.5°	394.8	419.3	515.7	657.2	728.0
145°	414.9	436.2	518.4	631.4	688.1
147.5°	432.1	452.7	522.9	605.4	654.4
150°	447.0	461.2	524.6	596.8	631.2
152.5°	458.6	473.6	526.3	585.1	617.1
155°	473.9	485.0	530.8	570.7	593.9
157.5°	492.9	499.6	531.8	564.1	580.7
160°	502.9	507.9	536.0	559.1	573.2
162.5°	508.7	514.5	536.8	554.9	565.8
165°	523.6	525.6	537.0	548.6	556.7
167.5°	533.7	531.9	541.8	547.0	550.3
170°	537.0	536.0	540.1	541.3	545.3
172.5°	544.5	541.0	542.6	539.6	542.8
175°	548.4	545.4	543.2	540.0	536.0
177.5°	550.1	545.2	542.6	539.3	540.1
180°	544.3	544.3	544.3	544.3	544.3

(END OF REPORT)