

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: P564088

Luminaire Tested: **SQ4-PR1-075U-075D-940-1D-UNV-STD-W-8**

Issue Date: 7/30/2021

**Test Information**

Test Method: LM-79-2019  
Report Number: P564088  
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1910-536-22, 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-075D-940-1D-UNV-STD-W-8  
Description: CORELITE SQ4 SUSPENDED LED LUMINAIRE WITH PERCEIVE RIPPLE CONTINUOUS LENS.  
DOWNLIGHT 750 LUMENS PER FOOT  
UPLIGHT 750 LUMENS PER FOOT  
Light Source: 4000K CCT, 90 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

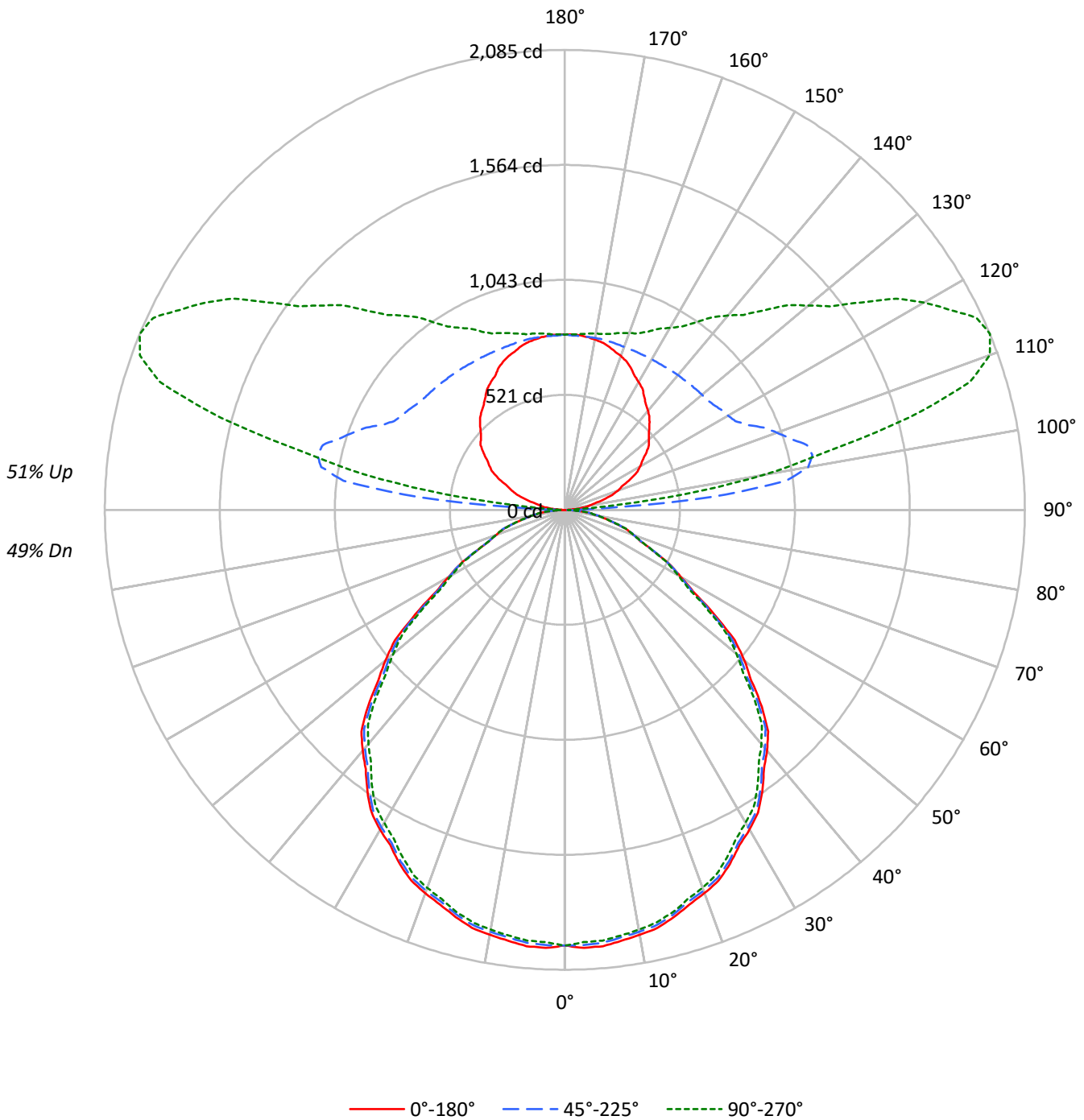
Lumens per Lamp: N/A  
Luminaire Lumens: 10116.3 lumens  
Efficiency: N/A  
Efficacy: 111.2 lumens/watt  
Spacing Criteria (0/90/45): 1.26 / 1.24 / 1.35  
Luminous Opening: Rectangular (W 0.29' x L: 8' x H: 0')  
CIE Type: General Diffuse

Input Watts (W): 91  
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	107	107	107	107	98	98	98	98	83	83	83	68	68	68	55	55	55	49
1	98	94	90	86	90	86	83	80	73	71	68	60	59	57	49	48	47	42
2	89	82	76	71	82	76	71	66	64	60	57	53	51	48	44	42	40	35
3	82	72	65	59	75	67	61	56	57	52	48	47	44	41	39	36	34	30
4	75	64	56	50	69	59	53	47	51	45	41	42	39	36	35	32	30	26
5	69	57	49	43	63	53	46	41	45	40	36	38	34	31	31	28	26	23
6	63	51	43	38	58	48	41	36	41	35	31	35	30	27	29	25	23	20
7	59	46	39	33	54	43	36	31	37	32	28	31	27	24	26	23	21	18
8	54	42	35	29	50	39	32	28	34	28	25	29	25	21	24	21	18	16
9	51	39	31	26	47	36	29	25	31	26	22	26	22	19	22	19	17	14
10	47	35	28	23	44	33	27	22	29	23	20	24	20	17	21	17	15	13

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

	0°	45°	90°
0°	9112	9112	9112
5°	9194	9123	9076
10°	9165	9102	9054
15°	9125	9068	9020
20°	9079	9021	8954
25°	9015	8954	8850
30°	8918	8855	8727
35°	8786	8710	8585
40°	8586	8494	8340
45°	8236	8092	7925
50°	7620	7437	7289
55°	6651	6500	6363
60°	5604	5557	5447
65°	4848	4866	4829
70°	4452	4475	4475
75°	4276	4276	4306
80°	4022	4067	4022
85°	3245	3604	3604



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	186.8	1.8
10°-20°	534.4	5.3
20°-30°	806.1	8.0
30°-40°	960.5	9.5
40°-50°	946.9	9.4
50°-60°	723.7	7.2
60°-70°	447.9	4.4
70°-80°	254.4	2.5
80°-90°	79.4	0.8
90°-100°	374.7	3.7
100°-110°	1031.0	10.2
110°-120°	1064.2	10.5
120°-130°	852.6	8.4
130°-140°	669.7	6.6
140°-150°	513.2	5.1
150°-160°	369.0	3.6
160°-170°	225.6	2.2
170°-180°	76.1	0.8
0°-30°	1527.4	15.1
0°-40°	2487.8	24.6
0°-60°	4158.5	41.1
0°-90°	4940.1	48.8
90°-120°	2470.0	24.4
90°-150°	4505.5	44.5
90°-180°	5176.0	51.2
0°-180°	10116.3	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	1975	1975	1975	1975	1975	
5°	1986	1964	1970	1963	1960	188
15°	1911	1891	1899	1892	1889	539
25°	1771	1750	1759	1740	1739	815
35°	1560	1542	1547	1526	1524	974
45°	1262	1246	1240	1218	1215	967
55°	827	814	808	794	791	741
65°	444	441	446	442	442	450
75°	240	240	240	242	242	253
85°	61	65	68	68	68	71
90°	2	7	12	15	15	6
95°	56	205	663	283	181	59
105°	184	283	1136	1730	1614	194
115°	326	397	911	1814	2059	322
125°	450	512	827	1398	1638	401
135°	543	602	803	1131	1280	419
145°	627	670	791	964	1038	393
155°	710	733	786	866	891	326
165°	768	777	790	822	827	216
175°	794	796	791	801	800	75
180°	794	794	794	794	794	

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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	1975.3	1975.3	1975.3	1975.3	1975.3
2.5°	1987.6	1970.3	1975.3	1971.0	1961.7
5°	1985.5	1963.9	1970.2	1963.3	1960.0
7.5°	1970.2	1948.9	1955.3	1948.4	1946.4
10°	1956.6	1936.6	1943.0	1936.1	1932.8
12.5°	1941.6	1920.3	1928.0	1919.8	1916.5
15°	1910.7	1890.7	1898.8	1891.9	1888.6
17.5°	1876.6	1855.4	1863.4	1855.5	1851.1
20°	1849.4	1829.5	1837.5	1825.6	1823.9
22.5°	1819.5	1799.5	1807.6	1791.6	1791.2
25°	1771.2	1749.5	1759.2	1740.5	1738.8
27.5°	1713.7	1693.7	1701.7	1682.6	1680.6
30°	1674.2	1654.2	1662.3	1641.8	1638.4
32.5°	1629.3	1610.6	1617.4	1596.9	1594.9
35°	1560.2	1541.9	1546.6	1526.1	1524.5
37.5°	1481.6	1464.9	1467.6	1445.1	1443.5
40°	1425.8	1409.1	1410.5	1386.6	1384.9
42.5°	1364.5	1347.9	1346.5	1322.6	1321.0
45°	1262.4	1245.8	1240.3	1218.1	1214.8
47.5°	1146.1	1129.4	1119.2	1101.1	1098.8
50°	1061.7	1045.0	1036.2	1020.7	1015.7
52.5°	970.5	953.8	946.3	932.3	927.3
55°	826.9	813.6	808.2	794.5	791.2
57.5°	690.4	681.4	679.9	666.6	665.2
60°	607.4	602.4	602.3	590.4	590.4
62.5°	536.6	533.0	535.6	527.7	526.4
65°	444.1	440.7	445.8	442.4	442.4
67.5°	370.9	370.9	374.0	372.6	372.6
70°	330.1	330.1	331.8	331.8	331.8
72.5°	293.3	292.0	296.4	296.4	295.0
75°	239.9	239.9	239.9	241.6	241.6
77.5°	186.8	187.1	188.5	188.1	186.8
80°	151.4	153.1	153.1	151.4	151.4
82.5°	116.0	117.7	117.7	117.4	116.0
85°	61.3	64.6	68.1	68.1	68.1
87.5°	18.0	24.3	29.6	30.2	28.9
90°	1.7	6.6	11.8	15.2	15.2
92.5°	23.3	99.7	172.8	66.3	54.4
95°	55.8	204.6	662.7	283.4	180.9
97.5°	90.9	226.8	1011.3	779.2	549.8
100°	116.6	240.6	1120.8	1131.3	923.0
102.5°	141.0	257.0	1149.2	1403.5	1212.4
105°	184.3	283.4	1136.0	1730.2	1614.4
107.5°	225.5	316.1	1071.5	1890.1	1924.5
110°	255.3	337.9	1022.8	1929.9	2048.9

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**CANDELA DISTRIBUTION (continued):**

	0°	22.5°	45°	67.5°	90°
112.5°	282.3	362.3	974.1	1904.3	2085.4
115°	326.3	397.3	911.2	1814.4	2059.1
117.5°	368.2	433.7	871.3	1688.4	1965.1
120°	393.9	456.7	853.7	1593.9	1879.9
122.5°	416.9	479.7	841.5	1511.1	1782.5
125°	449.7	512.5	826.7	1398.4	1638.1
127.5°	480.8	540.6	816.9	1304.4	1514.7
130°	497.0	558.2	811.4	1248.6	1440.3
132.5°	515.9	577.1	807.4	1199.5	1372.7
135°	542.7	602.2	803.0	1131.0	1279.7
137.5°	567.7	622.9	799.3	1075.6	1198.2
140°	586.6	637.9	797.9	1038.8	1149.6
142.5°	602.8	650.1	795.2	1006.0	1100.9
145°	627.2	670.2	791.2	963.6	1038.0
147.5°	653.2	690.2	789.1	926.1	985.6
150°	669.4	702.5	787.8	905.5	951.8
152.5°	684.3	714.7	786.4	887.7	926.1
155°	710.0	733.2	786.1	866.1	890.9
157.5°	728.6	747.5	786.1	848.4	865.5
160°	742.1	757.0	786.1	838.8	852.0
162.5°	753.0	765.2	787.4	830.6	841.2
165°	767.5	777.4	789.5	821.7	826.7
167.5°	777.6	785.2	791.2	814.2	815.5
170°	784.4	789.4	791.2	811.4	811.4
172.5°	789.8	792.1	791.2	807.4	806.0
175°	794.5	796.2	791.2	801.3	799.6
177.5°	795.9	795.9	790.5	798.5	795.9
180°	794.5	794.5	794.5	794.5	794.5

(END OF REPORT)