

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: P563416

Luminaire Tested: **SQ4-PP3-075U-075D-940-1D-UNV-STD-W-8**

Issue Date: 7/30/2021

Test Information

Test Method: LM-79-2019
Report Number: P563416
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1910-536-22, 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-PP3-075U-075D-940-1D-UNV-STD-W-8
Description: CORELITE SQ4 SUSPENDED LED LUMINAIRE WITH PERCEIVE PRISM CONTINUOUS LENS.
DOWNLIGHT 750 LUMENS PER FOOT
UPLIGHT 750 LUMENS PER FOOT
Light Source: 4000K CCT, 90 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

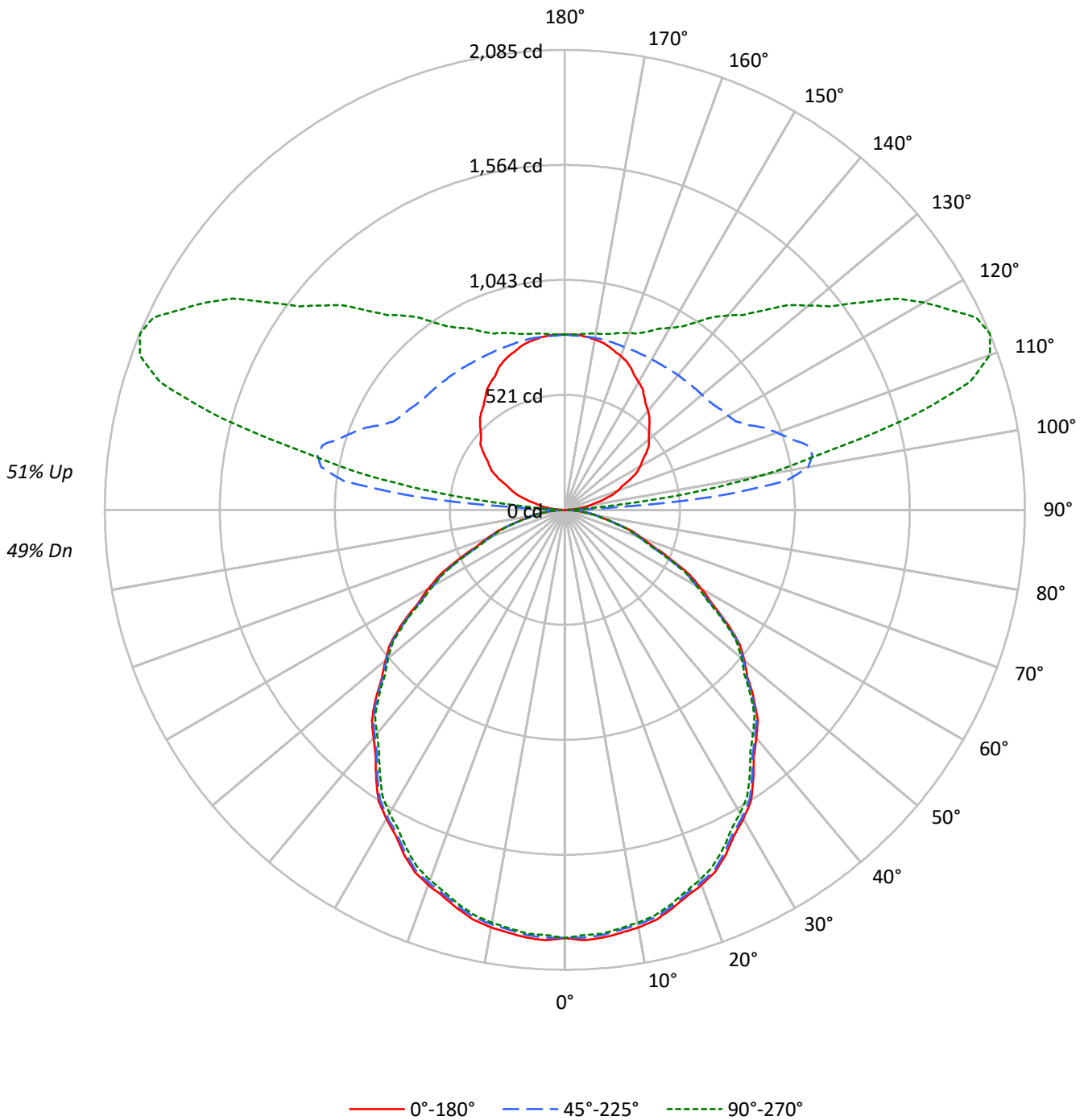
Lumens per Lamp: N/A
Luminaire Lumens: 10145.6 lumens
Efficiency: N/A
Efficacy: 111.5 lumens/watt
Spacing Criteria (0/90/45): 1.24 / 1.22 / 1.33
Luminous Opening: Rectangular (W 0.29' x L: 8' x H: 0')
CIE Type: General Diffuse

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	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	61	59	57	49	48	47	42				
2	89	82	76	71	82	76	70	66	64	60	57	53	51	48	43	42	40	35				
3	81	72	65	59	75	67	60	55	57	52	48	47	44	41	39	36	34	30				
4	75	64	56	50	68	59	52	47	50	45	41	42	38	35	35	32	29	26				
5	68	57	49	43	63	53	46	40	45	40	35	38	34	30	31	28	26	22				
6	63	51	43	37	58	47	40	35	41	35	31	34	30	27	28	25	23	20				
7	58	46	38	33	54	43	36	31	37	31	27	31	27	24	26	23	20	18				
8	54	42	34	29	50	39	32	27	34	28	24	28	24	21	24	20	18	16				
9	50	38	31	26	46	36	29	24	31	25	22	26	22	19	22	19	16	14				
10	47	35	28	23	43	33	26	22	28	23	19	24	20	17	20	17	15	13				

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	8953	8953	8953
5°	9019	8964	8932
10°	9004	8940	8900
15°	8944	8895	8847
20°	8885	8835	8768
25°	8779	8719	8632
30°	8617	8571	8463
35°	8392	8334	8229
40°	8123	8072	7980
45°	7901	7846	7768
50°	7617	7569	7495
55°	7223	7127	7073
60°	6576	6387	6356
65°	5793	5552	5533
70°	5001	4795	4795
75°	4304	4244	4183
80°	3796	3841	3751
85°	2969	3239	3239



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	183.5	1.8
10°-20°	524.0	5.2
20°-30°	784.9	7.7
30°-40°	920.7	9.1
40°-50°	923.5	9.1
50°-60°	787.9	7.8
60°-70°	513.8	5.1
70°-80°	257.8	2.5
80°-90°	73.3	0.7
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	0.7
0°-30°	1492.5	14.7
0°-40°	2413.1	23.8
0°-60°	4124.5	40.7
0°-90°	4969.5	49.0
90°-120°	2470.0	24.3
90°-150°	4505.5	44.4
90°-180°	5176.0	51.0
0°-180°	10145.6	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1941	1941	1941	1941	1941	
5°	1948	1929	1936	1929	1929	185
15°	1873	1854	1863	1856	1852	528
25°	1725	1705	1713	1698	1696	793
35°	1490	1475	1480	1463	1461	931
45°	1211	1203	1203	1191	1191	933
55°	898	895	886	881	879	798
65°	531	521	509	505	507	530
75°	242	242	238	236	235	262
85°	56	61	61	61	61	66
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	

TEST NUMBER: P563416

CATALOG NUMBER: SQ4-PP3-075U-075D-940-1D-UNV-STD-W-8

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1940.8	1940.8	1940.8	1940.8	1940.8
2.5°	1953.1	1937.1	1940.8	1937.9	1930.0
5°	1947.6	1929.4	1935.7	1928.9	1928.9
7.5°	1934.4	1914.4	1920.8	1914.0	1913.6
10°	1922.1	1902.2	1908.5	1901.7	1900.0
12.5°	1904.4	1884.5	1892.2	1884.0	1883.7
15°	1872.8	1854.5	1862.6	1855.7	1852.4
17.5°	1837.1	1817.1	1826.9	1817.3	1816.0
20°	1809.9	1789.9	1799.7	1786.1	1786.1
22.5°	1777.2	1757.2	1768.4	1750.7	1750.7
25°	1724.8	1704.9	1712.9	1697.6	1695.9
27.5°	1662.6	1642.9	1651.3	1634.0	1633.6
30°	1617.7	1599.4	1609.1	1590.4	1588.7
32.5°	1568.7	1551.7	1558.8	1540.0	1538.4
35°	1490.1	1475.1	1479.9	1462.8	1461.2
37.5°	1407.4	1392.1	1397.5	1382.9	1382.2
40°	1348.9	1338.9	1340.4	1328.4	1325.1
42.5°	1294.5	1283.2	1284.6	1272.7	1272.0
45°	1211.1	1202.8	1202.6	1190.7	1190.7
47.5°	1122.7	1116.3	1114.5	1104.6	1104.3
50°	1061.4	1056.4	1054.6	1046.1	1044.4
52.5°	997.5	995.1	989.3	982.2	981.8
55°	898.1	894.8	886.2	881.1	879.4
57.5°	790.3	783.6	774.0	766.5	767.8
60°	712.7	706.1	692.3	688.9	688.9
62.5°	637.9	629.9	616.1	611.4	614.1
65°	530.7	520.7	508.6	505.2	506.9
67.5°	433.4	424.4	411.3	411.3	409.9
70°	370.8	365.8	355.5	355.5	355.5
72.5°	315.0	312.7	305.2	305.1	303.8
75°	241.5	241.5	238.1	236.4	234.7
77.5°	181.0	181.7	180.0	178.2	175.2
80°	142.9	146.2	144.6	142.8	141.2
82.5°	107.5	110.8	110.6	107.5	107.2
85°	56.1	61.1	61.2	61.2	61.2
87.5°	15.3	21.6	24.1	24.8	26.2
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



TEST NUMBER: P563416

CATALOG NUMBER: SQ4-PP3-075U-075D-940-1D-UNV-STD-W-8

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)