

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: P563988

Luminaire Tested: **SQ4-PR1-050U-075D-935-1D-UNV-STD-W-8**

Issue Date: 7/30/2021

Test Information

Test Method: LM-79-2019
Report Number: P563988
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1910-536-21, 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-075D-935-1D-UNV-STD-W-8
Description: CORELITE SQ4 SUSPENDED LED LUMINAIRE WITH PERCEIVE RIPPLE CONTINUOUS LENS.
DOWNLIGHT 750 LUMENS PER FOOT
UPLIGHT 500 LUMENS PER FOOT
Light Source: 3500K CCT, 90 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

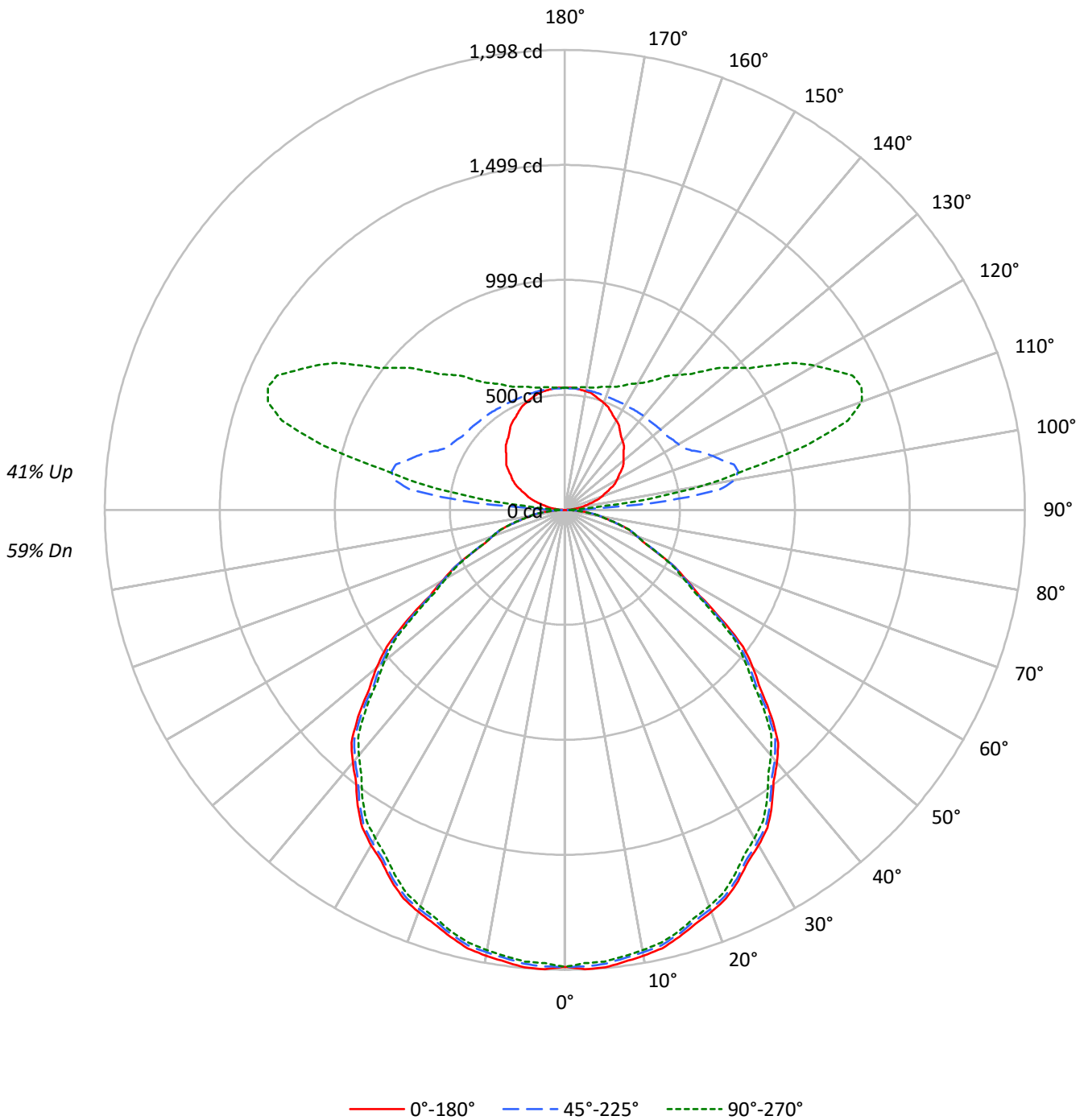
Lumens per Lamp: N/A
Luminaire Lumens: 8426.9 lumens
Efficiency: N/A
Efficacy: 107.9 lumens/watt
Spacing Criteria (0/90/45): 1.26 / 1.24 / 1.35
Luminous Opening: Rectangular (W 0.29' x L: 8' x H: 0')
CIE Type: General Diffuse

Input Watts (W): 78.1
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	109	109	109	109	102	102	102	102	88	88	88	76	76	76	64	64	64	59
1	100	96	92	89	93	90	86	83	78	76	73	67	65	64	57	56	55	50
2	91	84	78	73	85	79	73	69	69	65	61	59	56	54	51	49	47	43
3	84	74	67	61	78	70	63	58	61	56	52	53	49	46	45	43	40	37
4	77	66	58	52	71	62	55	49	54	49	44	47	43	40	41	38	35	32
5	71	59	51	45	66	55	48	43	49	43	39	43	38	35	37	33	31	28
6	65	53	45	39	61	50	43	37	44	38	34	39	34	30	33	30	27	24
7	60	48	40	34	56	45	38	33	40	34	30	35	30	27	31	27	24	22
8	56	44	36	30	52	41	34	29	37	31	27	32	28	24	28	24	22	19
9	52	40	32	27	49	38	31	26	34	28	24	30	25	22	26	22	20	17
10	49	37	29	25	46	35	28	24	31	25	22	27	23	20	24	20	18	16

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	9159	9159	9159
5°	9242	9170	9123
10°	9212	9148	9100
15°	9172	9115	9065
20°	9126	9067	8999
25°	9061	9000	8896
30°	8963	8900	8772
35°	8831	8754	8629
40°	8630	8537	8383
45°	8278	8133	7966
50°	7658	7474	7327
55°	6684	6533	6396
60°	5633	5586	5475
65°	4872	4890	4853
70°	4475	4498	4498
75°	4297	4297	4328
80°	4043	4088	4043
85°	3260	3620	3620



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	187.8	2.2
10°-20°	537.2	6.4
20°-30°	810.2	9.6
30°-40°	965.4	11.5
40°-50°	951.8	11.3
50°-60°	727.4	8.6
60°-70°	450.1	5.3
70°-80°	255.7	3.0
80°-90°	79.8	0.9
90°-100°	254.5	3.0
100°-110°	691.4	8.2
110°-120°	710.8	8.4
120°-130°	568.3	6.7
130°-140°	446.6	5.3
140°-150°	342.4	4.1
150°-160°	246.2	2.9
160°-170°	150.6	1.8
170°-180°	50.7	0.6
0°-30°	1535.1	18.2
0°-40°	2500.5	29.7
0°-60°	4179.7	49.6
0°-90°	4965.3	58.9
90°-120°	1656.7	19.7
90°-150°	3014.0	35.8
90°-180°	3462.0	41.1
0°-180°	8426.9	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1985	1985	1985	1985	1985	
5°	1996	1974	1980	1973	1970	189
15°	1920	1900	1908	1902	1898	542
25°	1780	1758	1768	1749	1748	819
35°	1568	1550	1554	1534	1532	979
45°	1269	1252	1247	1224	1221	972
55°	831	818	812	798	795	745
65°	446	443	448	445	445	452
75°	241	241	241	243	243	255
85°	62	65	68	68	68	72
90°	2	7	12	15	15	5
95°	38	139	443	193	130	40
105°	123	191	760	1158	1089	130
115°	218	265	609	1211	1379	215
125°	300	342	551	928	1094	267
135°	361	401	535	756	852	279
145°	418	448	528	642	690	262
155°	472	489	525	577	593	218
165°	511	518	527	549	551	144
175°	530	532	528	535	534	50
180°	530	530	530	530	530	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1985.4	1985.4	1985.4	1985.4	1985.4
2.5°	1997.7	1980.3	1985.4	1981.1	1971.7
5°	1995.7	1973.9	1980.3	1973.4	1970.0
7.5°	1980.3	1958.9	1965.2	1958.3	1956.3
10°	1966.6	1946.5	1952.9	1946.0	1942.7
12.5°	1951.5	1930.1	1937.9	1929.6	1926.2
15°	1920.4	1900.4	1908.5	1901.5	1898.2
17.5°	1886.2	1864.8	1872.9	1864.9	1860.6
20°	1858.9	1838.8	1846.9	1834.9	1833.2
22.5°	1828.8	1808.7	1816.8	1800.7	1800.4
25°	1780.2	1758.5	1768.2	1749.4	1747.7
27.5°	1722.4	1702.3	1710.4	1691.2	1689.2
30°	1682.7	1662.7	1670.8	1650.2	1646.8
32.5°	1637.6	1618.9	1625.6	1605.0	1603.0
35°	1568.1	1549.8	1554.5	1533.9	1532.2
37.5°	1489.1	1472.4	1475.1	1452.5	1450.8
40°	1433.1	1416.3	1417.7	1393.7	1392.0
42.5°	1371.5	1354.8	1353.4	1329.4	1327.7
45°	1268.9	1252.2	1246.7	1224.3	1221.0
47.5°	1151.9	1135.2	1124.9	1106.7	1104.4
50°	1067.1	1050.4	1041.4	1025.9	1020.9
52.5°	975.4	958.7	951.1	937.0	932.0
55°	831.1	817.7	812.3	798.5	795.2
57.5°	694.0	684.9	683.4	670.0	668.6
60°	610.5	605.5	605.4	593.4	593.4
62.5°	539.4	535.7	538.3	530.4	529.1
65°	446.3	443.0	448.0	444.6	444.6
67.5°	372.8	372.8	375.9	374.5	374.5
70°	331.8	331.8	333.5	333.5	333.5
72.5°	294.8	293.5	297.9	297.9	296.5
75°	241.1	241.1	241.1	242.8	242.8
77.5°	187.8	188.1	189.5	189.1	187.8
80°	152.2	153.9	153.9	152.2	152.2
82.5°	116.6	118.3	118.3	118.0	116.6
85°	61.6	64.9	68.4	68.4	68.4
87.5°	18.1	24.5	29.7	30.4	29.1
90°	1.7	6.7	11.9	15.3	15.3
92.5°	15.3	69.7	121.0	52.0	44.0
95°	37.5	139.2	443.2	192.9	129.6
97.5°	62.1	153.7	679.5	528.6	371.3
100°	78.4	163.4	751.8	762.1	615.4
102.5°	94.8	173.1	770.9	942.5	813.1
105°	122.7	191.1	760.3	1157.6	1089.3
107.5°	151.7	212.1	716.3	1268.7	1287.7
110°	172.2	227.2	683.6	1290.6	1372.3



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	189.9	242.2	650.8	1272.4	1395.4
115°	218.2	264.9	608.6	1210.7	1379.1
117.5°	244.8	289.5	581.6	1123.3	1312.9
120°	262.5	305.9	569.4	1064.6	1252.9
122.5°	277.5	320.9	561.2	1005.8	1187.5
125°	300.0	341.7	550.6	927.7	1094.4
127.5°	320.1	361.5	544.8	868.5	1011.6
130°	332.4	372.4	542.1	831.4	959.7
132.5°	344.7	384.7	539.4	799.7	913.4
135°	361.4	401.4	535.3	755.7	852.3
137.5°	379.5	415.8	533.2	716.8	798.1
140°	390.4	425.4	531.9	692.1	765.4
142.5°	401.3	433.6	530.5	672.7	734.0
145°	417.6	447.6	528.4	642.1	690.4
147.5°	436.1	461.7	526.7	618.0	656.0
150°	448.3	470.0	526.7	604.1	634.1
152.5°	457.9	476.9	525.4	591.7	616.4
155°	472.2	488.9	525.0	576.6	593.2
157.5°	486.2	499.2	525.0	566.2	578.9
160°	494.4	506.0	525.0	559.4	569.4
162.5°	502.5	511.5	526.4	553.8	561.2
165°	511.4	518.1	526.7	548.9	550.6
167.5°	520.6	523.9	528.4	543.1	544.5
170°	523.3	526.7	528.4	540.4	540.4
172.5°	526.1	528.1	528.4	537.7	537.7
175°	530.2	531.8	528.4	535.2	533.6
177.5°	531.5	531.5	527.4	532.8	530.2
180°	530.2	530.2	530.2	530.2	530.2

(END OF REPORT)