

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: P564012

Luminaire Tested: **SQ4-PR1-050U-100D-935-1D-UNV-STD-W-8**

Issue Date: 7/30/2021

Test Information

Test Method: LM-79-2019
Report Number: P564012
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-100D-935-1D-UNV-STD-W-8
Description: CORELITE SQ4 SUSPENDED LED LUMINAIRE WITH PERCEIVE RIPPLE CONTINUOUS LENS.
DOWNLIGHT 1000 LUMENS PER FOOT
UPLIGHT 500 LUMENS PER FOOT
Light Source: 3500K CCT, 90 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

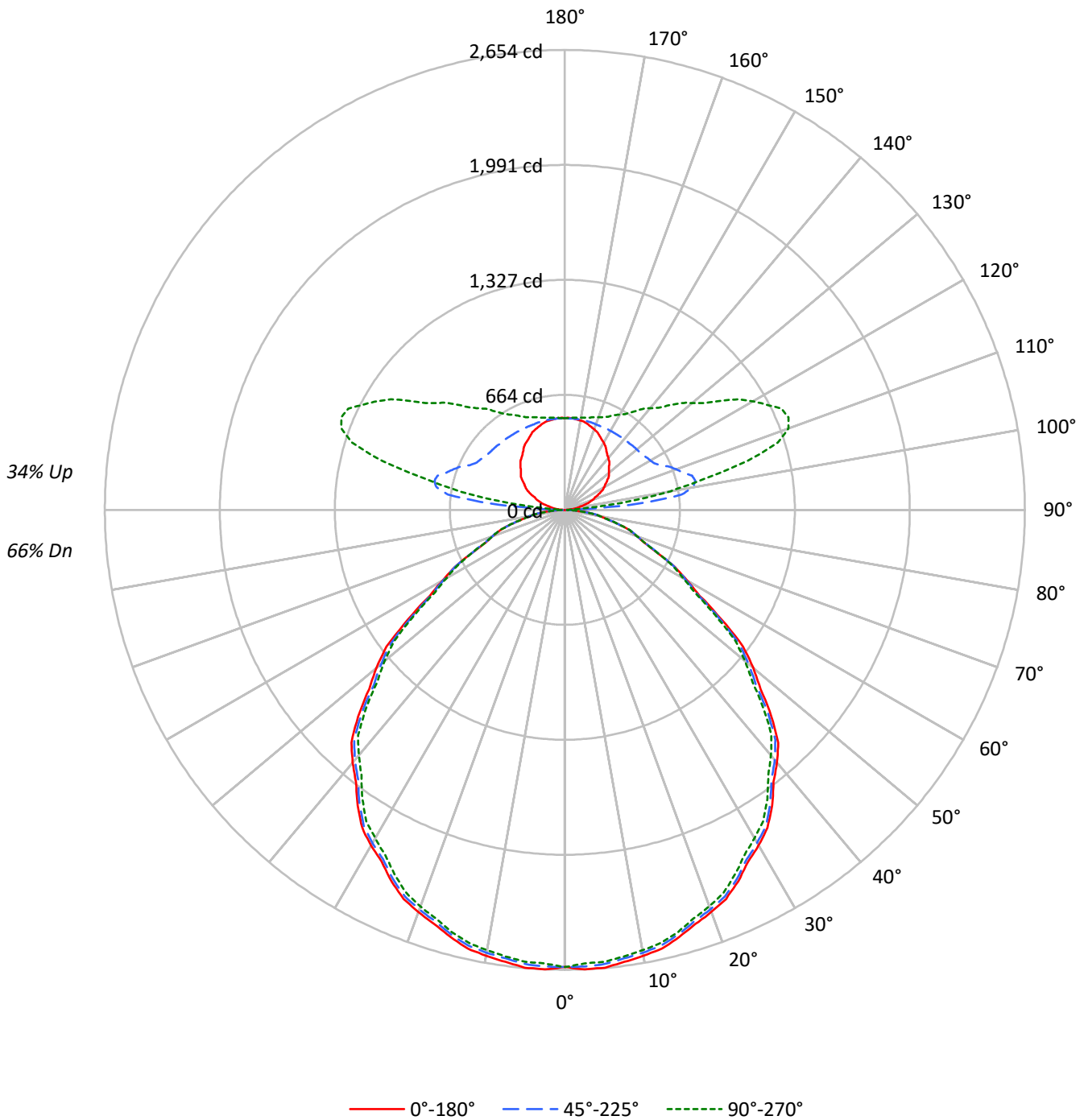
Lumens per Lamp: N/A
Luminaire Lumens: 10058.3 lumens
Efficiency: N/A
Efficacy: 105.4 lumens/watt
Spacing Criteria (0/90/45): 1.26 / 1.24 / 1.35
Luminous Opening: Rectangular (W 0.29' x L: 8' x H: 0')
CIE Type: Semi-Direct

Input Watts (W): 95.4
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	50	30	10	0	
RCR																						
0	111	111	111	111	104	104	104	104	92	92	92	81	81	81	70	70	70	66				
1	102	97	94	90	95	92	88	85	81	79	76	72	70	68	63	62	60	56				
2	93	85	79	74	87	81	75	71	72	68	64	63	60	57	56	53	51	48				
3	85	76	68	62	80	71	65	60	64	58	54	56	52	49	50	47	44	41				
4	78	67	59	53	73	64	56	51	57	51	47	51	46	42	45	41	38	35				
5	72	60	52	46	67	57	50	44	51	45	40	46	41	37	40	37	34	31				
6	66	54	46	40	62	51	44	38	46	40	35	41	36	33	37	33	30	27				
7	61	49	41	35	58	47	39	34	42	36	31	38	33	29	34	30	26	24				
8	57	45	37	31	54	42	35	30	38	32	28	34	30	26	31	27	24	22				
9	53	41	33	28	50	39	32	27	35	29	25	32	27	23	29	24	21	19				
10	50	37	30	25	47	36	29	24	33	27	23	29	25	21	26	22	20	18				

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	12169	12169	12169
5°	12279	12184	12121
10°	12240	12155	12091
15°	12186	12111	12045
20°	12125	12047	11958
25°	12040	11958	11820
30°	11910	11825	11655
35°	11734	11631	11465
40°	11466	11343	11138
45°	10999	10806	10584
50°	10175	9931	9735
55°	8882	8680	8498
60°	7484	7422	7275
65°	6473	6498	6449
70°	5945	5976	5976
75°	5711	5711	5752
80°	5372	5433	5372
85°	4330	4811	4811



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	249.5	2.5
10°-20°	713.7	7.1
20°-30°	1076.5	10.7
30°-40°	1282.7	12.8
40°-50°	1264.6	12.6
50°-60°	966.5	9.6
60°-70°	598.1	5.9
70°-80°	339.7	3.4
80°-90°	105.4	1.0
90°-100°	254.5	2.5
100°-110°	691.4	6.9
110°-120°	710.8	7.1
120°-130°	568.3	5.7
130°-140°	446.6	4.4
140°-150°	342.4	3.4
150°-160°	246.2	2.4
160°-170°	150.6	1.5
170°-180°	50.7	0.5
0°-30°	2039.8	20.3
0°-40°	3322.5	33.0
0°-60°	5553.6	55.2
0°-90°	6596.8	65.6
90°-120°	1656.7	16.5
90°-150°	3014.0	30.0
90°-180°	3462.0	34.4
0°-180°	10058.3	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2638	2638	2638	2638	2638	
5°	2652	2623	2631	2622	2618	252
15°	2552	2525	2536	2527	2522	720
25°	2365	2336	2349	2324	2322	1089
35°	2084	2059	2065	2038	2036	1300
45°	1686	1664	1656	1627	1622	1292
55°	1104	1086	1079	1061	1057	989
65°	593	589	595	591	591	601
75°	320	320	320	323	323	338
85°	82	86	91	91	91	95
90°	2	7	12	15	15	6
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°	2638.0	2638.0	2638.0	2638.0	2638.0
2.5°	2654.4	2631.3	2638.0	2632.3	2619.8
5°	2651.7	2622.8	2631.2	2622.0	2617.6
7.5°	2631.2	2602.8	2611.2	2602.1	2599.4
10°	2613.0	2586.4	2594.8	2585.7	2581.2
12.5°	2593.0	2564.6	2574.9	2563.8	2559.4
15°	2551.7	2525.0	2535.8	2526.6	2522.1
17.5°	2506.2	2477.8	2488.5	2477.9	2472.1
20°	2469.9	2443.2	2454.0	2438.0	2435.8
22.5°	2429.9	2403.2	2414.0	2392.6	2392.2
25°	2365.4	2336.5	2349.4	2324.4	2322.2
27.5°	2288.6	2261.9	2272.6	2247.1	2244.5
30°	2235.8	2209.2	2219.9	2192.6	2188.1
32.5°	2175.9	2151.0	2159.9	2132.6	2130.0
35°	2083.6	2059.2	2065.4	2038.1	2035.9
37.5°	1978.6	1956.4	1960.0	1930.0	1927.7
40°	1904.1	1881.9	1883.6	1851.8	1849.6
42.5°	1822.3	1800.1	1798.2	1766.4	1764.1
45°	1686.0	1663.8	1656.4	1626.8	1622.3
47.5°	1530.6	1508.3	1494.6	1470.5	1467.4
50°	1417.8	1395.6	1383.8	1363.2	1356.5
52.5°	1296.1	1273.8	1263.8	1245.0	1238.3
55°	1104.3	1086.5	1079.3	1061.0	1056.6
57.5°	922.1	910.1	908.0	890.2	888.4
60°	811.2	804.5	804.4	788.5	788.5
62.5°	716.7	711.8	715.3	704.8	703.0
65°	593.0	588.6	595.3	590.8	590.8
67.5°	495.3	495.3	499.4	497.6	497.6
70°	440.8	440.8	443.1	443.1	443.1
72.5°	391.7	389.9	395.8	395.8	394.0
75°	320.4	320.4	320.4	322.7	322.7
77.5°	249.5	249.9	251.8	251.3	249.5
80°	202.2	204.4	204.5	202.2	202.2
82.5°	155.0	157.2	157.2	156.7	155.0
85°	81.8	86.2	90.9	90.9	90.9
87.5°	24.0	32.1	38.7	39.4	37.6
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)