

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: P563340

Luminaire Tested: **SQ4-PP3-050U-100D-935-1D-UNV-STD-W-8**

Issue Date: 7/30/2021

Test Information

Test Method: LM-79-2019
Report Number: P563340
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1910-536-21, 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-PP3-050U-100D-935-1D-UNV-STD-W-8
Description: CORELITE SQ4 SUSPENDED LED LUMINAIRE WITH PERCEIVE PRISM CONTINUOUS LENS.
DOWNLIGHT 1000 LUMENS PER FOOT
UPLIGHT 500 LUMENS PER FOOT
Light Source: 3500K CCT, 90 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

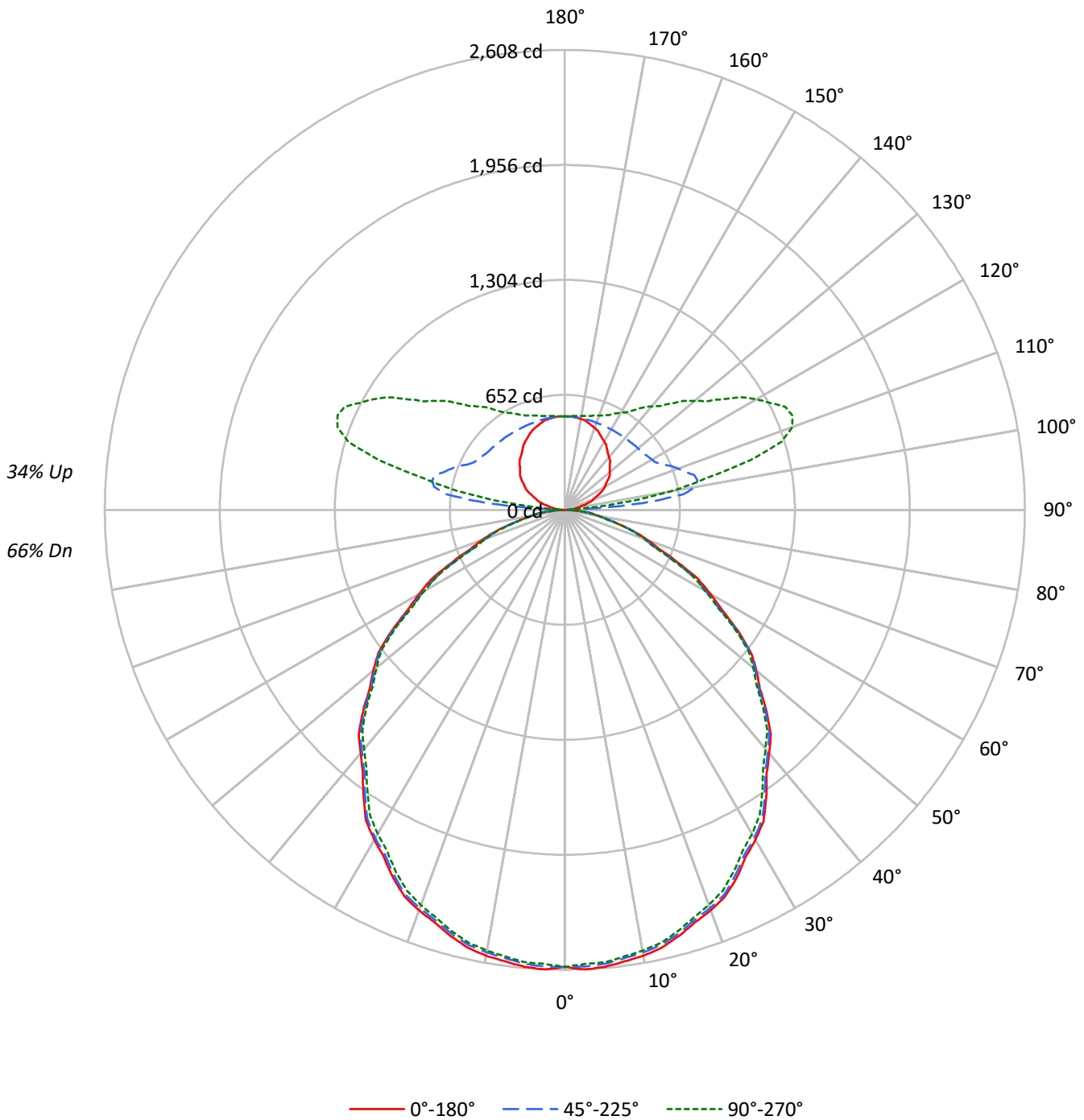
Lumens per Lamp: N/A
Luminaire Lumens: 10097.6 lumens
Efficiency: N/A
Efficacy: 105.8 lumens/watt
Spacing Criteria (0/90/45): 1.24 / 1.22 / 1.33
Luminous Opening: Rectangular (W 0.29' x L: 8' x H: 0')
CIE Type: Semi-Direct

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	0
RCR																		
0	111	111	111	111	104	104	104	104	92	92	92	81	81	81	71	71	71	66
1	102	97	93	90	95	92	88	85	81	79	76	72	70	68	63	61	60	56
2	93	85	79	74	87	80	75	70	72	67	64	63	60	57	56	53	51	47
3	85	75	68	62	79	71	64	59	63	58	54	56	52	49	49	46	44	40
4	78	67	59	52	73	63	56	50	56	51	46	50	46	42	44	41	38	35
5	71	60	51	45	67	56	49	43	51	44	40	45	40	36	40	36	33	30
6	66	54	45	39	62	51	43	38	46	39	35	41	36	32	36	32	29	26
7	61	48	40	35	57	46	39	33	41	35	31	37	32	28	33	29	26	23
8	57	44	36	31	53	42	35	30	38	32	27	34	29	25	30	26	23	21
9	53	40	33	27	50	38	31	27	35	29	25	31	26	23	28	24	21	19
10	49	37	30	25	47	35	29	24	32	26	22	29	24	21	26	22	19	17

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	11957	11957	11957
5°	12045	11971	11929
10°	12025	11939	11886
15°	11945	11880	11814
20°	11865	11799	11709
25°	11725	11644	11528
30°	11508	11447	11302
35°	11207	11130	10989
40°	10848	10780	10656
45°	10552	10478	10374
50°	10173	10108	10010
55°	9646	9519	9445
60°	8781	8531	8488
65°	7737	7414	7390
70°	6679	6404	6404
75°	5750	5668	5588
80°	5069	5130	5008
85°	3970	4330	4330



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	245.1	2.4
10°-20°	699.8	6.9
20°-30°	1048.2	10.4
30°-40°	1229.5	12.2
40°-50°	1233.4	12.2
50°-60°	1052.2	10.4
60°-70°	686.2	6.8
70°-80°	344.3	3.4
80°-90°	97.3	1.0
90°-100°	254.5	2.5
100°-110°	691.4	6.8
110°-120°	710.8	7.0
120°-130°	568.3	5.6
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°	1993.2	19.7
0°-40°	3222.7	31.9
0°-60°	5508.3	54.6
0°-90°	6636.0	65.7
90°-120°	1656.7	16.4
90°-150°	3014.0	29.8
90°-180°	3462.0	34.3
0°-180°	10097.6	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2592	2592	2592	2592	2592	
5°	2601	2577	2585	2576	2576	247
15°	2501	2477	2488	2478	2474	706
25°	2304	2277	2288	2267	2265	1059
35°	1990	1970	1976	1954	1951	1243
45°	1617	1606	1606	1590	1590	1245
55°	1199	1195	1184	1177	1174	1066
65°	709	695	679	675	677	707
75°	323	323	318	316	314	350
85°	75	82	82	82	82	88
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°	2592.0	2592.0	2592.0	2592.0	2592.0
2.5°	2608.3	2587.0	2592.0	2588.1	2577.4
5°	2601.1	2576.6	2585.2	2576.1	2576.1
7.5°	2583.3	2556.7	2565.2	2556.1	2555.6
10°	2567.0	2540.3	2548.8	2539.7	2537.4
12.5°	2543.4	2516.7	2527.0	2516.1	2515.6
15°	2501.1	2476.7	2487.5	2478.3	2473.8
17.5°	2453.4	2426.7	2439.8	2427.0	2425.2
20°	2417.0	2390.4	2403.4	2385.2	2385.2
22.5°	2373.4	2346.8	2361.6	2338.0	2338.0
25°	2303.5	2276.8	2287.6	2267.1	2264.8
27.5°	2220.3	2194.1	2205.3	2182.1	2181.7
30°	2160.4	2135.9	2149.0	2124.0	2121.7
32.5°	2094.9	2072.3	2081.8	2056.7	2054.5
35°	1990.0	1970.0	1976.3	1953.6	1951.4
37.5°	1879.6	1859.1	1866.4	1846.8	1846.0
40°	1801.4	1788.1	1790.1	1774.1	1769.6
42.5°	1728.7	1713.6	1715.6	1699.6	1698.7
45°	1617.4	1606.3	1606.1	1590.2	1590.2
47.5°	1499.3	1490.9	1488.4	1475.2	1474.8
50°	1417.5	1410.9	1408.4	1397.0	1394.8
52.5°	1332.1	1329.0	1321.2	1311.6	1311.2
55°	1199.4	1195.0	1183.5	1176.7	1174.4
57.5°	1055.4	1046.5	1033.6	1023.7	1025.4
60°	951.8	942.9	924.6	920.0	920.0
62.5°	851.9	841.2	822.8	816.5	820.1
65°	708.8	695.4	679.2	674.7	677.0
67.5°	578.8	566.8	549.3	549.2	547.5
70°	495.2	488.6	474.8	474.8	474.8
72.5°	420.7	417.6	407.5	407.5	405.7
75°	322.6	322.6	318.0	315.7	313.5
77.5°	241.7	242.6	240.3	238.0	234.0
80°	190.8	195.3	193.1	190.8	188.5
82.5°	143.6	148.0	147.7	143.6	143.1
85°	75.0	81.6	81.8	81.8	81.8
87.5°	20.3	28.4	31.5	32.2	34.0
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)