

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: P563344

Luminaire Tested: **SQ4-PP3-050U-100D-940-1D-UNV-STD-W-8**

Issue Date: 7/30/2021

Test Information

Test Method: LM-79-2019
Report Number: P563344
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-940-1D-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: 4000K CCT, 90 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

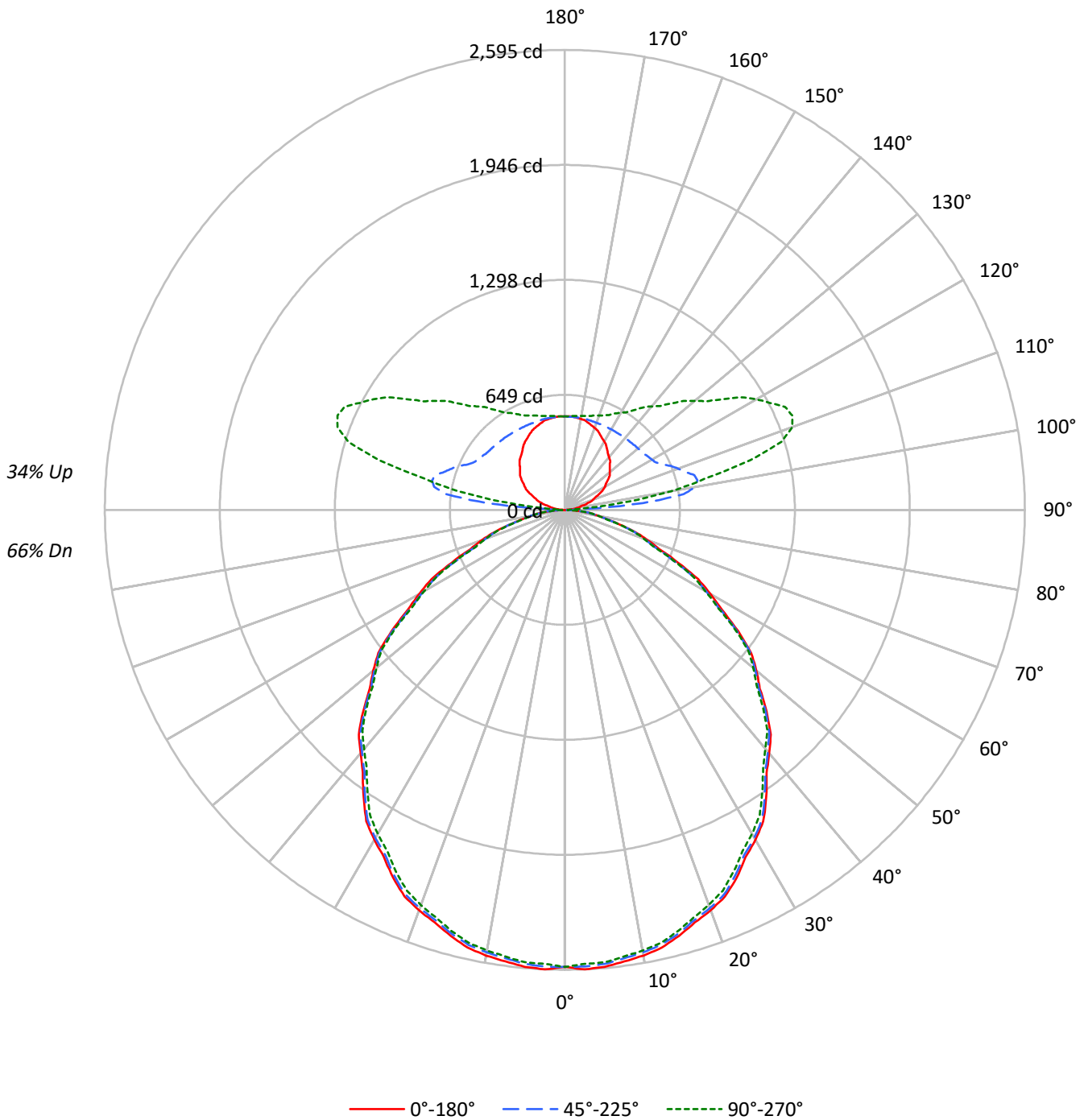
Lumens per Lamp: N/A
Luminaire Lumens: 10046.3 lumens
Efficiency: N/A
Efficacy: 105.3 lumens/watt
Spacing Criteria (0/90/45): 1.24 / 1.22 / 1.33
Luminous Opening: Rectangular (W 0.29' x L: 8' x H: 0')
CIE Type: Semi-Direct

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°	11896	11896	11896
5°	11983	11910	11869
10°	11963	11879	11826
15°	11884	11819	11755
20°	11806	11739	11650
25°	11665	11584	11469
30°	11449	11389	11245
35°	11150	11073	10933
40°	10793	10725	10602
45°	10498	10425	10321
50°	10121	10057	9959
55°	9597	9470	9398
60°	8737	8487	8446
65°	7698	7377	7352
70°	6645	6372	6372
75°	5720	5639	5559
80°	5045	5103	4984
85°	3949	4308	4308



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	243.8	2.4
10°-20°	696.3	6.9
20°-30°	1042.9	10.4
30°-40°	1223.3	12.2
40°-50°	1227.1	12.2
50°-60°	1046.8	10.4
60°-70°	682.7	6.8
70°-80°	342.5	3.4
80°-90°	96.8	1.0
90°-100°	253.2	2.5
100°-110°	687.8	6.8
110°-120°	707.2	7.0
120°-130°	565.4	5.6
130°-140°	444.3	4.4
140°-150°	340.7	3.4
150°-160°	245.0	2.4
160°-170°	149.8	1.5
170°-180°	50.5	0.5
0°-30°	1983.0	19.7
0°-40°	3206.4	31.9
0°-60°	5480.3	54.6
0°-90°	6602.4	65.7
90°-120°	1648.3	16.4
90°-150°	2998.6	29.8
90°-180°	3444.0	34.3
0°-180°	10046.3	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2579	2579	2579	2579	2579	
5°	2588	2564	2572	2563	2563	246
15°	2488	2464	2475	2466	2461	702
25°	2292	2265	2276	2256	2253	1054
35°	1980	1960	1966	1944	1941	1237
45°	1609	1598	1598	1582	1582	1239
55°	1193	1189	1178	1171	1168	1061
65°	705	692	676	671	674	704
75°	321	321	316	314	312	348
85°	75	81	81	81	81	88
90°	2	7	12	15	15	5
95°	37	138	441	192	129	40
105°	122	190	756	1152	1084	130
115°	217	264	606	1205	1372	214
125°	298	340	548	923	1089	266
135°	360	399	532	752	848	278
145°	416	445	526	639	687	261
155°	470	486	522	574	590	217
165°	509	515	524	546	548	144
175°	528	529	526	532	531	50
180°	528	528	528	528	528	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2578.8	2578.8	2578.8	2578.8	2578.8
2.5°	2595.1	2573.9	2578.8	2574.9	2564.3
5°	2587.8	2563.5	2572.0	2563.0	2563.0
7.5°	2570.2	2543.7	2552.1	2543.1	2542.6
10°	2553.9	2527.4	2535.9	2526.8	2524.6
12.5°	2530.4	2503.9	2514.2	2503.3	2502.9
15°	2488.4	2464.1	2474.8	2465.7	2461.3
17.5°	2440.9	2414.4	2427.4	2414.7	2412.9
20°	2404.8	2378.3	2391.2	2373.1	2373.1
22.5°	2361.4	2334.9	2349.6	2326.1	2326.1
25°	2291.8	2265.2	2275.9	2255.6	2253.3
27.5°	2209.0	2183.0	2194.1	2171.1	2170.6
30°	2149.4	2125.1	2138.1	2113.2	2111.0
32.5°	2084.3	2061.7	2071.2	2046.3	2044.1
35°	1979.9	1960.0	1966.3	1943.7	1941.4
37.5°	1870.0	1849.7	1856.9	1837.5	1836.6
40°	1792.3	1779.0	1781.0	1765.1	1760.6
42.5°	1720.0	1704.9	1706.8	1691.0	1690.1
45°	1609.2	1598.2	1597.9	1582.1	1582.1
47.5°	1491.7	1483.3	1480.8	1467.7	1467.3
50°	1410.3	1403.7	1401.3	1389.9	1387.7
52.5°	1325.3	1322.2	1314.5	1305.0	1304.5
55°	1193.3	1188.9	1177.5	1170.7	1168.5
57.5°	1050.1	1041.2	1028.4	1018.5	1020.2
60°	947.0	938.2	919.9	915.4	915.4
62.5°	847.5	836.9	818.6	812.4	815.9
65°	705.2	691.9	675.8	671.3	673.5
67.5°	575.9	563.9	546.5	546.5	544.7
70°	492.7	486.1	472.4	472.4	472.4
72.5°	418.6	415.5	405.5	405.4	403.7
75°	320.9	320.9	316.4	314.1	311.9
77.5°	240.5	241.4	239.1	236.8	232.8
80°	189.9	194.3	192.1	189.8	187.6
82.5°	142.8	147.3	146.9	142.8	142.4
85°	74.6	81.2	81.4	81.4	81.4
87.5°	20.2	28.3	31.3	32.0	33.8
90°	1.7	6.7	11.9	15.3	15.3
92.5°	15.3	69.3	120.4	51.7	43.8
95°	37.3	138.5	441.0	191.9	128.9
97.5°	61.7	152.9	676.0	525.9	369.4
100°	78.0	162.6	747.9	758.2	612.3
102.5°	94.3	172.2	766.9	937.7	809.0
105°	122.1	190.1	756.4	1151.7	1083.8
107.5°	150.9	211.0	712.7	1262.3	1281.2
110°	171.3	226.0	680.1	1284.0	1365.3



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	188.9	241.0	647.5	1266.0	1388.4
115°	217.1	263.5	605.5	1204.6	1372.1
117.5°	243.5	288.0	578.7	1117.6	1306.3
120°	261.2	304.3	566.5	1059.2	1246.6
122.5°	276.1	319.2	558.3	1000.7	1181.4
125°	298.5	340.0	547.8	923.0	1088.8
127.5°	318.5	359.6	542.0	864.1	1006.4
130°	330.7	370.5	539.3	827.2	954.9
132.5°	342.9	382.7	536.6	795.6	908.7
135°	359.6	399.4	532.5	751.8	848.0
137.5°	377.5	413.7	530.5	713.1	794.1
140°	388.4	423.2	529.2	688.5	761.5
142.5°	399.2	431.4	527.8	669.3	730.3
145°	415.5	445.4	525.8	638.8	686.9
147.5°	433.8	459.4	524.1	614.8	652.6
150°	446.1	467.6	524.1	601.1	630.9
152.5°	455.6	474.5	522.7	588.7	613.3
155°	469.8	486.4	522.4	573.6	590.2
157.5°	483.7	496.6	522.4	563.4	576.0
160°	491.8	503.5	522.4	556.5	566.5
162.5°	500.0	508.9	523.7	551.0	558.3
165°	508.8	515.4	524.1	546.2	547.8
167.5°	518.0	521.3	525.8	540.4	541.7
170°	520.7	524.0	525.8	537.6	537.6
172.5°	523.4	525.4	525.8	534.9	534.9
175°	527.5	529.1	525.8	532.5	530.9
177.5°	528.8	528.8	524.7	530.1	527.5
180°	527.5	527.5	527.5	527.5	527.5

(END OF REPORT)