

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: P520380

Luminaire Tested: **SQ4-F-150U-050D-935-1D-UNV-STD-W-4**

Issue Date: 4/29/2021

Test Information

Test Method: LM-79-2019
Report Number: P520380
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1910-536-25, G3-1910-536-17)
Test Lab: INNOVATION CENTER
Issue Date: 4/29/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: CORELITE
Catalog Number: SQ4-F-150U-050D-935-1D-UNV-STD-W-4
Description: CORELITE SQ4 SUSPENDED LED LUMINAIRE
DOWNLIGHT 500 LUMENS PER FOOT
UPLIGHT 1500 LUMENS PER FOOT
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

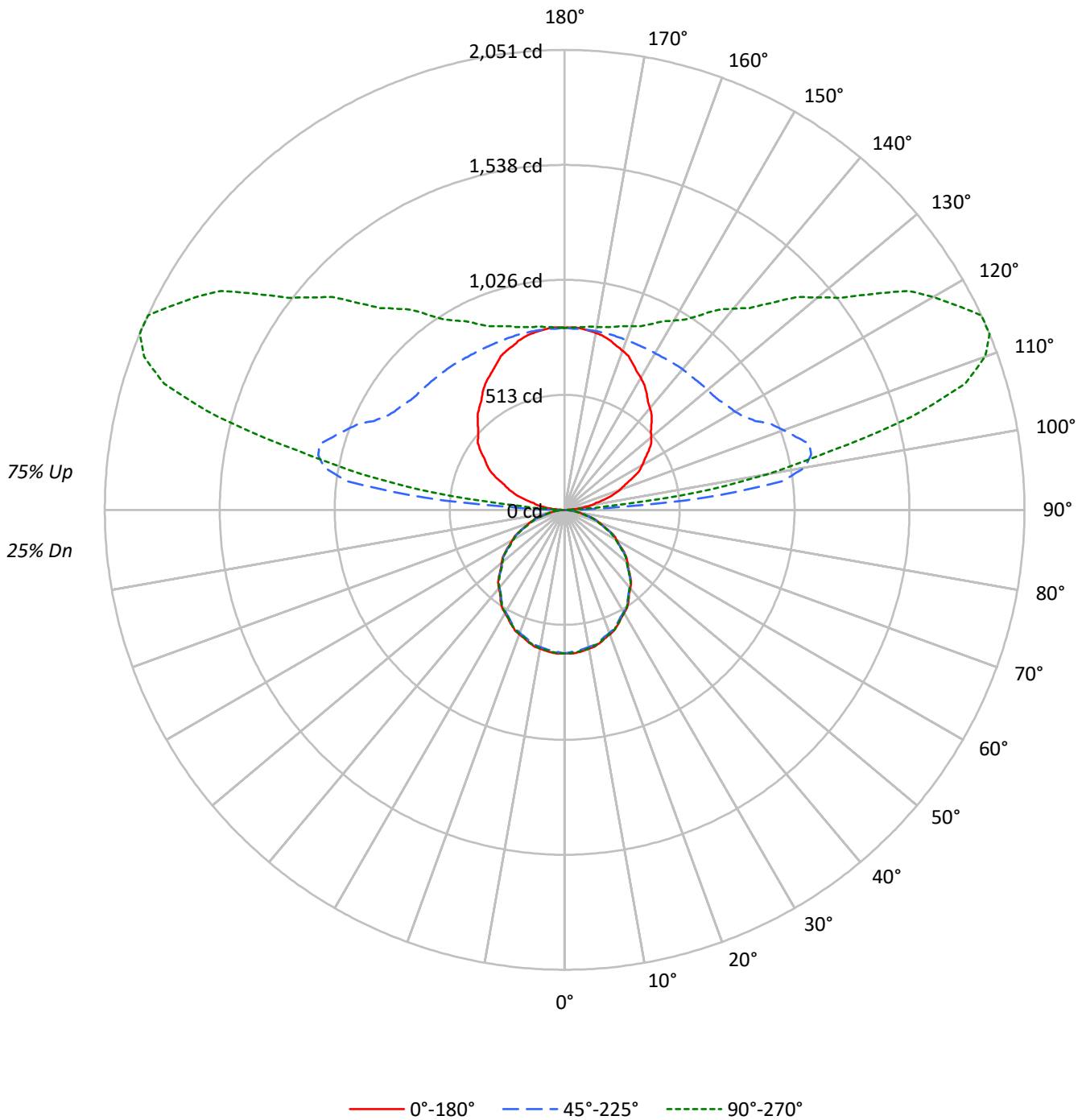
Lumens per Lamp: N/A
Luminaire Lumens: 6982.6 lumens
Efficiency: N/A
Efficacy: 125.4 lumens/watt
Spacing Criteria (0/90/45): 1.24 / 1.24 / 1.35
Luminous Opening: Rectangular (W 0.29' x L: 4' x H: 0')
CIE Type: Semi-Indirect

Input Watts (W): 55.7
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	101	101	101	101	90	90	90	90	69	69	69	51	51	51	33	33	33	25
1	92	88	84	81	82	79	75	73	61	59	57	44	43	42	29	29	28	21
2	84	77	71	66	74	69	64	59	53	50	47	39	37	35	26	25	23	18
3	76	67	60	55	68	60	54	49	47	43	39	34	32	29	23	21	20	15
4	70	59	52	46	62	53	47	42	41	37	33	30	27	25	20	18	17	13
5	64	53	45	39	57	47	41	36	37	32	29	27	24	22	18	16	15	11
6	59	47	39	34	52	42	36	31	33	28	25	24	21	19	16	14	13	10
7	54	42	35	29	48	38	31	27	30	25	22	22	19	16	15	13	11	8
8	50	38	31	26	44	34	28	23	27	22	19	20	17	15	14	12	10	8
9	47	35	28	23	41	31	25	21	25	20	17	18	15	13	13	11	9	7
10	43	32	25	20	39	29	23	18	23	18	15	17	14	12	12	10	8	6

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	5905	5905	5905
5°	5920	5849	5896
10°	5899	5827	5868
15°	5859	5785	5835
20°	5804	5737	5779
25°	5738	5669	5722
30°	5659	5613	5650
35°	5598	5530	5558
40°	5491	5438	5449
45°	5377	5333	5333
50°	5263	5215	5190
55°	5141	5072	5044
60°	4949	4870	4838
65°	4713	4619	4563
70°	4392	4297	4205
75°	3939	3818	3725
80°	3188	3145	3050
85°	1895	2181	2265



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	60.4	0.9
10°-20°	172.0	2.5
20°-30°	258.3	3.7
30°-40°	308.3	4.4
40°-50°	315.9	4.5
50°-60°	281.8	4.0
60°-70°	209.8	3.0
70°-80°	113.9	1.6
80°-90°	28.0	0.4
90°-100°	377.3	5.4
100°-110°	1020.1	14.6
110°-120°	1072.5	15.4
120°-130°	871.2	12.5
130°-140°	683.4	9.8
140°-150°	524.5	7.5
150°-160°	377.2	5.4
160°-170°	230.4	3.3
170°-180°	77.7	1.1
0°-30°	490.6	7.0
0°-40°	799.0	11.4
0°-60°	1396.7	20.0
0°-90°	1748.5	25.0
90°-120°	2469.9	35.4
90°-150°	4548.9	65.1
90°-180°	5234.0	75.0
0°-180°	6982.6	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	640	640	640	640	640	
5°	639	638	632	637	637	61
15°	613	612	606	611	611	173
25°	564	562	557	560	562	260
35°	497	495	491	491	494	310
45°	412	413	409	408	409	318
55°	320	320	315	313	314	285
65°	216	215	212	209	209	214
75°	110	110	107	105	104	117
85°	18	20	21	21	21	25
90°	2	5	11	12	11	4
95°	58	206	627	325	193	61
105°	190	293	1132	1669	1601	200
115°	334	408	939	1817	2051	330
125°	457	524	846	1428	1677	407
135°	548	613	823	1153	1305	423
145°	637	685	812	987	1062	399
155°	719	747	805	885	914	332
165°	783	791	808	840	844	221
175°	813	812	809	820	818	77
180°	812	812	812	812	812	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	640.0	640.0	640.0	640.0	640.0
2.5°	642.0	640.7	635.2	640.0	639.4
5°	639.2	638.3	631.5	637.4	636.6
7.5°	634.5	632.9	626.1	632.0	631.1
10°	629.7	628.0	622.0	627.1	626.3
12.5°	623.6	622.6	615.9	621.0	620.8
15°	613.4	611.7	605.7	610.9	610.9
17.5°	600.1	599.1	593.2	598.1	597.6
20°	591.1	589.5	584.3	588.6	588.6
22.5°	580.2	579.2	574.1	577.6	578.3
25°	563.7	562.1	556.9	560.4	562.1
27.5°	545.6	544.3	540.0	542.2	543.4
30°	531.2	531.2	526.9	527.8	530.3
32.5°	518.2	518.2	513.2	514.1	515.3
35°	497.0	495.3	491.0	491.0	493.5
37.5°	472.2	471.4	468.7	468.2	468.9
40°	455.9	455.0	451.5	452.4	452.4
42.5°	439.4	438.5	435.0	433.9	435.2
45°	412.1	413.0	408.7	407.8	408.7
47.5°	385.3	385.3	381.8	379.4	380.7
50°	366.7	366.7	363.3	361.6	361.6
52.5°	347.5	348.2	344.0	341.7	342.4
55°	319.6	319.6	315.3	312.8	313.6
57.5°	288.7	288.7	284.5	281.9	283.4
60°	268.2	268.2	263.9	261.3	262.2
62.5°	247.6	247.6	243.4	240.8	240.9
65°	215.9	215.1	211.6	209.0	209.0
67.5°	185.4	183.2	180.6	177.2	177.2
70°	162.8	161.9	159.3	155.9	155.9
72.5°	142.2	140.7	138.1	135.4	135.4
75°	110.5	109.6	107.1	105.4	104.5
77.5°	79.2	78.5	78.3	75.9	76.6
80°	60.0	60.0	59.2	57.4	57.4
82.5°	42.8	43.5	42.0	41.6	40.9
85°	17.9	19.6	20.6	21.4	21.4
87.5°	3.7	6.4	7.0	7.9	7.7
90°	1.7	5.1	11.4	12.2	11.4
92.5°	24.8	90.4	178.5	77.5	56.1
95°	58.5	205.5	627.4	324.7	193.1
97.5°	94.1	235.7	978.0	809.4	594.4
100°	120.6	247.9	1087.1	1133.7	916.7
102.5°	145.1	264.9	1125.6	1379.6	1217.3
105°	189.6	293.0	1131.6	1669.3	1600.9
107.5°	230.9	325.2	1082.2	1850.0	1872.7
110°	263.1	348.5	1038.2	1898.5	1995.1



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	291.7	371.7	997.6	1888.8	2051.0
115°	333.8	408.1	938.6	1816.9	2051.0
117.5°	375.0	444.7	899.6	1707.0	1972.3
120°	400.3	468.6	876.5	1628.1	1898.9
122.5°	424.0	491.0	862.5	1543.5	1816.4
125°	457.0	523.7	845.9	1427.5	1677.0
127.5°	487.4	552.9	836.1	1332.7	1552.1
130°	504.2	571.7	832.0	1274.3	1472.5
132.5°	521.7	588.5	827.7	1221.5	1404.0
135°	548.0	612.8	823.2	1152.6	1304.7
137.5°	574.3	635.7	819.4	1096.7	1220.7
140°	592.5	649.8	818.0	1060.8	1171.0
142.5°	609.9	663.7	815.2	1028.3	1124.9
145°	637.1	684.9	811.8	986.6	1061.7
147.5°	661.7	704.1	808.0	948.7	1006.5
150°	679.8	717.5	806.6	928.2	974.4
152.5°	696.6	729.4	805.9	909.2	947.1
155°	719.2	747.3	804.8	885.1	914.0
157.5°	742.6	762.2	805.0	868.2	887.4
160°	755.9	772.1	805.7	857.6	871.3
162.5°	766.4	779.8	806.4	849.2	859.4
165°	783.0	790.7	808.3	839.9	844.1
167.5°	794.3	799.7	808.5	832.0	834.1
170°	801.4	803.9	809.2	828.4	828.4
172.5°	806.9	807.4	809.2	824.2	823.5
175°	812.7	811.8	809.2	819.7	818.0
177.5°	814.6	812.5	809.0	816.0	813.9
180°	811.8	811.8	811.8	811.8	811.8

(END OF REPORT)