

Scaled data based on original data using
LM-79-08 Approved Method: Electrical and Photometric Measurements of Solid-State
Lighting Products

Test Report Prepared for

Cooper Lighting Solutions

(formerly Eaton)

Brand: CORELITE

Report Number: P521492

Luminaire Tested: **SQ4-F-075U-125D-93050-1D-UNV-STD-W-4 (3500K)**

Issue Date: 5/5/2021

Test Information

Test Method: LM-79-08
Report Number: P521492
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2101-105-50,
Test Lab: INNOVATION CENTER
Issue Date: 5/5/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: CORELITE
Catalog Number: SQ4-F-075U-125D-93050-1D-UNV-STD-W-4 (3500K)
Description: CORELITE SQ4 SUSPENDED LED LUMINAIRE
DOWNLIGHT 1250 LUMENS PER FOOT
UPLIGHT 750 LUMENS PER FOOT
Light Source: 3000K/5000K CCT, 90 CRI LEDS, TUNED TO 3500K CCT
Ballast/Driver: ELECTRONIC DRIVER

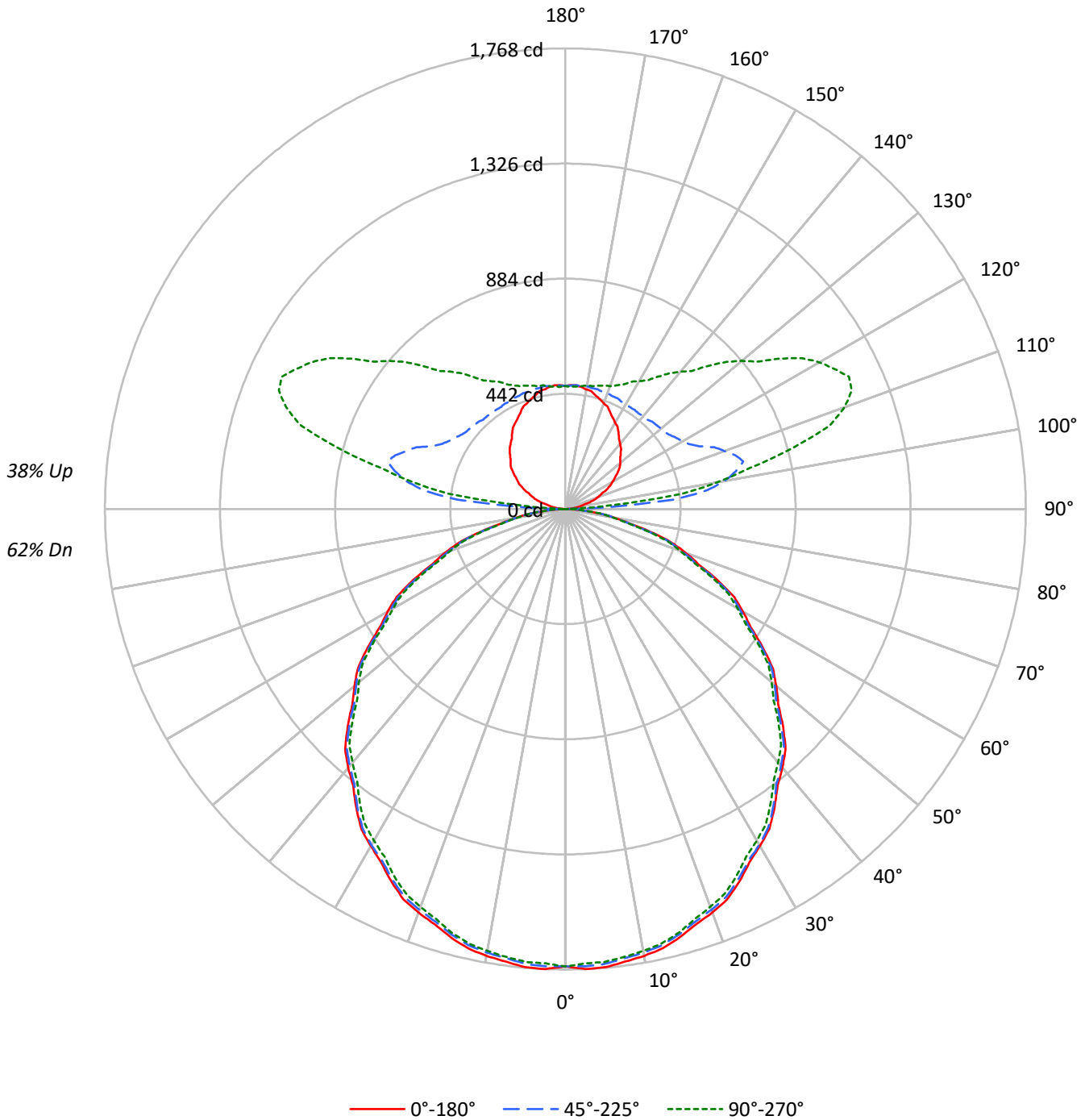
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 8061.0 lumens
Efficiency: N/A
Efficacy: 101.8 lumens/watt
Spacing Criteria (0/90/45): 1.27 / 1.25 / 1.38
Luminous Opening: Rectangular (W 0.29' x L: 4' x H: 0')
CIE Type: Semi-Direct

Input Watts (W): 79.2
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	110	110	110	110	103	103	103	103	90	90	90	78	78	78	67	67	67	62
1	100	96	92	88	94	90	86	83	79	76	74	69	67	65	59	58	56	52
2	91	83	77	72	85	78	73	68	69	64	61	60	57	54	52	49	47	43
3	83	73	66	60	77	69	62	57	61	55	51	53	49	45	46	43	40	36
4	76	65	56	50	71	61	54	48	54	48	43	47	42	39	41	37	34	31
5	70	58	49	43	65	54	47	41	48	42	37	42	37	33	37	33	30	27
6	64	52	43	37	60	49	41	36	43	37	32	38	33	29	33	29	26	23
7	59	47	38	33	55	44	37	31	39	33	28	35	30	26	30	26	23	21
8	55	42	34	29	51	40	33	28	36	30	25	32	27	23	28	24	21	18
9	51	39	31	26	48	37	30	25	33	27	23	29	24	21	26	22	19	17
10	48	36	28	23	45	34	27	22	30	24	20	27	22	19	24	20	17	15

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	16201	16201	16201
5°	16356	16235	16161
10°	16320	16198	16142
15°	16257	16152	16085
20°	16190	16082	15965
25°	16074	15983	15830
30°	15916	15863	15661
35°	15768	15690	15498
40°	15621	15513	15308
45°	15423	15292	15096
50°	15172	15057	14841
55°	14879	14734	14541
60°	14522	14319	14079
65°	14037	13754	13492
70°	13218	12894	12652
75°	12049	11692	11443
80°	9936	9882	9670
85°	7093	8045	8045



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	166.2	2.1
10°-20°	476.1	5.9
20°-30°	720.0	8.9
30°-40°	866.9	10.8
40°-50°	900.2	11.2
50°-60°	815.8	10.1
60°-70°	621.3	7.7
70°-80°	347.2	4.3
80°-90°	90.3	1.1
90°-100°	243.4	3.0
100°-110°	588.2	7.3
110°-120°	627.4	7.8
120°-130°	508.1	6.3
130°-140°	393.4	4.9
140°-150°	300.1	3.7
150°-160°	217.3	2.7
160°-170°	133.8	1.7
170°-180°	45.3	0.6
0°-30°	1362.3	16.9
0°-40°	2229.2	27.7
0°-60°	3945.1	48.9
0°-90°	5003.9	62.1
90°-120°	1459.0	18.1
90°-150°	2660.7	33.0
90°-180°	3057.0	37.9
0°-180°	8061.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1756	1756	1756	1756	1756	
5°	1766	1747	1753	1746	1745	168
15°	1702	1684	1691	1687	1684	480
25°	1579	1561	1570	1556	1555	727
35°	1400	1387	1393	1377	1376	876
45°	1182	1172	1172	1157	1157	911
55°	925	921	916	904	904	826
65°	643	636	630	619	618	634
75°	338	330	328	323	321	356
85°	67	73	76	77	76	83
90°	0	0	0	0	0	4
95°	24	122	417	271	190	27
105°	94	162	707	915	903	99
115°	172	220	568	1077	1201	170
125°	245	282	493	856	1006	219
135°	301	336	473	675	777	232
145°	356	382	464	574	619	223
155°	408	426	470	508	527	188
165°	451	458	476	483	490	127
175°	477	475	477	473	472	45
180°	472	472	472	472	472	



TEST NUMBER: P521492

CATALOG NUMBER: SQ4-F-075U-125D-93050-1D-UNV-STD-W-4 (3500K)

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1756.0	1756.0	1756.0	1756.0	1756.0
2.5°	1768.0	1752.4	1756.8	1753.4	1746.4
5°	1766.0	1747.4	1753.0	1746.0	1745.0
7.5°	1752.4	1733.8	1739.4	1735.2	1734.2
10°	1742.0	1723.4	1729.0	1724.0	1723.0
12.5°	1727.6	1709.8	1715.4	1709.6	1708.6
15°	1702.0	1684.4	1691.0	1686.9	1684.0
17.5°	1670.6	1652.6	1660.4	1654.3	1650.8
20°	1649.0	1629.4	1638.0	1628.0	1626.0
22.5°	1622.6	1603.0	1611.6	1599.2	1598.8
25°	1579.0	1561.4	1570.0	1556.0	1555.0
27.5°	1530.0	1513.6	1522.6	1505.6	1504.4
30°	1494.0	1478.4	1489.0	1472.0	1470.0
32.5°	1457.2	1443.9	1450.6	1435.9	1433.2
35°	1400.0	1387.3	1393.0	1377.0	1376.0
37.5°	1338.6	1325.9	1331.2	1316.0	1314.2
40°	1297.0	1284.3	1288.0	1272.0	1271.0
42.5°	1251.4	1241.0	1243.2	1226.4	1227.0
45°	1182.0	1172.2	1172.0	1157.0	1157.0
47.5°	1108.2	1098.4	1098.6	1084.8	1083.6
50°	1057.0	1051.1	1049.0	1036.0	1034.0
52.5°	1004.2	999.9	996.2	983.2	982.8
55°	925.0	921.1	916.0	904.0	904.0
57.5°	843.8	839.3	832.8	820.8	819.8
60°	787.0	784.1	776.0	764.0	763.0
62.5°	730.2	724.9	718.4	707.2	706.2
65°	643.0	636.2	630.0	619.0	618.0
67.5°	552.4	544.8	539.6	531.9	529.0
70°	490.0	483.2	478.0	471.9	469.0
72.5°	427.6	421.5	418.0	411.9	409.0
75°	338.0	330.2	328.0	323.0	321.0
77.5°	247.0	243.1	241.2	237.5	234.8
80°	187.0	187.0	186.0	184.0	182.0
82.5°	135.0	136.6	138.0	137.6	135.6
85°	67.0	72.9	76.0	77.0	76.0
87.5°	19.2	25.5	30.4	31.2	30.4
90°	0.0	0.0	0.0	0.0	0.0
92.5°	8.0	65.9	155.2	75.4	51.2
95°	24.0	121.8	417.0	271.2	190.0
97.5°	42.6	134.9	549.2	529.1	454.2
100°	57.0	143.0	622.0	656.6	595.0
102.5°	70.6	150.4	670.0	762.8	726.2
105°	94.0	162.4	707.0	914.7	903.0
107.5°	117.0	176.6	685.2	1036.6	1064.2
110°	133.0	188.7	650.0	1089.2	1141.0

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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	149.0	200.8	618.8	1102.0	1190.6
115°	172.0	219.9	568.0	1076.8	1201.0
117.5°	194.8	240.0	538.2	1018.9	1164.4
120°	210.0	252.0	519.0	973.5	1126.0
122.5°	226.0	264.9	507.0	927.0	1077.2
125°	245.0	282.2	493.0	856.4	1006.0
127.5°	263.8	298.8	483.2	796.6	928.0
130°	275.0	309.2	480.0	754.9	884.0
132.5°	285.4	321.2	475.2	724.9	834.4
135°	301.0	336.2	473.0	675.3	777.0
137.5°	315.8	351.2	466.0	641.7	718.4
140°	327.0	359.3	466.0	617.6	688.0
142.5°	338.2	370.5	462.0	596.6	656.0
145°	356.0	382.4	464.0	574.0	619.0
147.5°	372.6	398.2	462.8	548.0	585.2
150°	383.0	405.5	466.0	536.7	566.0
152.5°	394.2	415.9	465.2	524.6	550.8
155°	408.0	425.6	470.0	508.4	527.0
157.5°	424.6	439.7	469.0	502.2	513.2
160°	431.0	443.7	473.0	494.2	502.0
162.5°	441.4	452.5	471.4	491.7	496.4
165°	451.0	457.8	476.0	483.2	490.0
167.5°	462.8	467.3	474.8	482.6	482.8
170°	466.0	468.9	478.0	477.1	482.0
172.5°	471.6	473.8	475.6	477.7	474.8
175°	477.0	475.0	477.0	473.0	472.0
177.5°	476.0	476.0	474.4	472.7	468.8
180°	472.0	472.0	472.0	472.0	472.0

(END OF REPORT)