

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: P521491

Luminaire Tested: **SQ4-F-075U-125D-93050-1D-UNV-STD-W-4 (3000K)**

Issue Date: 5/5/2021

Test Information

Test Method: LM-79-08
Report Number: P521491
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 (3000K)
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 3000K CCT
Ballast/Driver: ELECTRONIC DRIVER

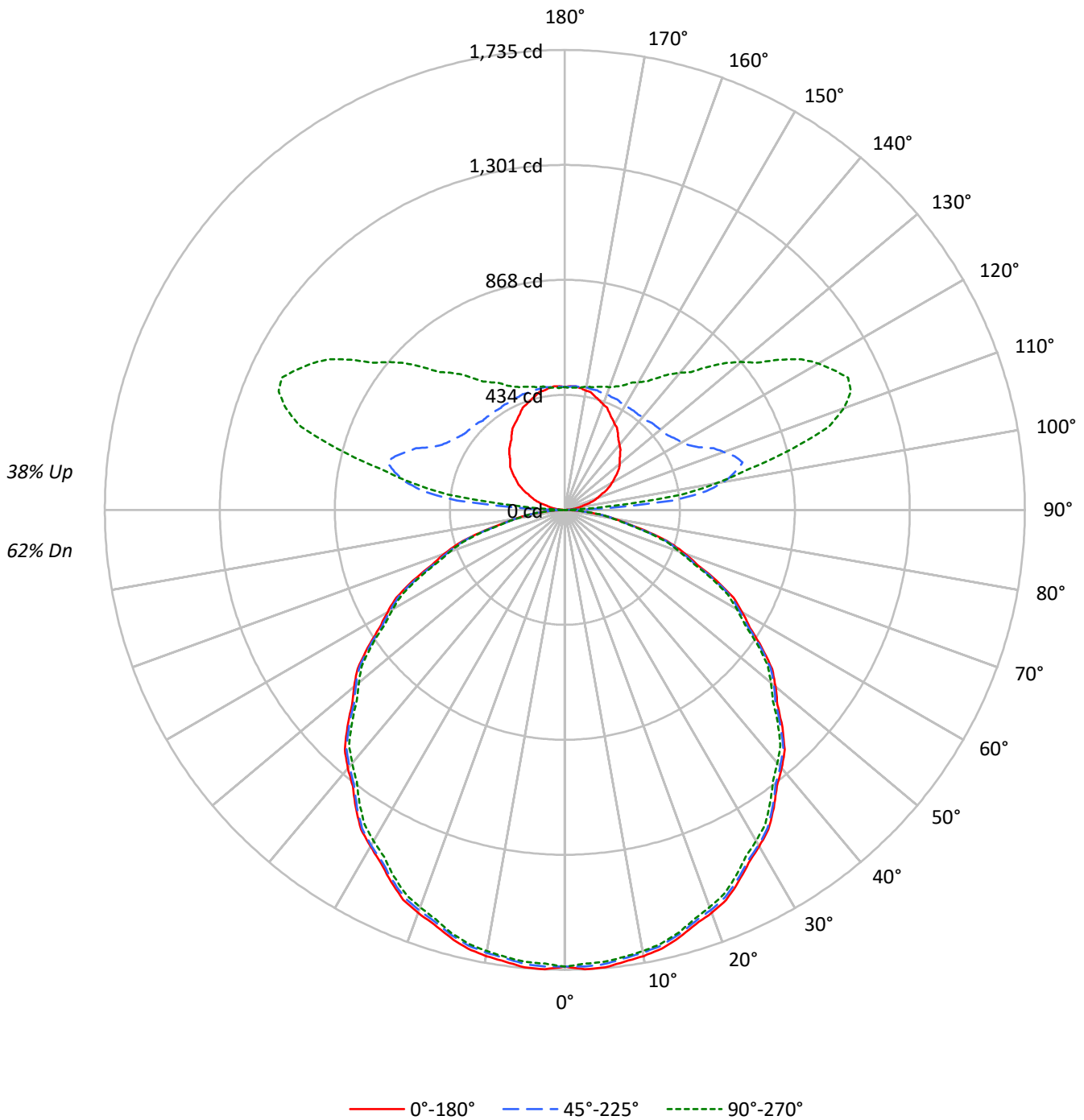
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 7909.5 lumens
Efficiency: N/A
Efficacy: 100.0 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): 79.1
Input Voltage (V): 120
Input Current (A_{in}): 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°	15897	15897	15897
5°	16048	15931	15857
10°	16014	15894	15838
15°	15951	15848	15783
20°	15886	15780	15665
25°	15772	15682	15533
30°	15617	15565	15367
35°	15472	15394	15206
40°	15327	15221	15020
45°	15133	15005	14813
50°	14886	14774	14563
55°	14599	14458	14268
60°	14249	14050	13815
65°	13773	13496	13238
70°	12970	12652	12414
75°	11821	11471	11229
80°	9750	9697	9489
85°	6955	7897	7897



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	163.1	2.1
10°-20°	467.2	5.9
20°-30°	706.5	8.9
30°-40°	850.6	10.8
40°-50°	883.3	11.2
50°-60°	800.5	10.1
60°-70°	609.6	7.7
70°-80°	340.7	4.3
80°-90°	88.6	1.1
90°-100°	238.8	3.0
100°-110°	577.2	7.3
110°-120°	615.6	7.8
120°-130°	498.6	6.3
130°-140°	386.0	4.9
140°-150°	294.5	3.7
150°-160°	213.2	2.7
160°-170°	131.3	1.7
170°-180°	44.5	0.6
0°-30°	1336.7	16.9
0°-40°	2187.3	27.7
0°-60°	3871.0	48.9
0°-90°	4909.9	62.1
90°-120°	1431.6	18.1
90°-150°	2610.7	33.0
90°-180°	3000.0	37.9
0°-180°	7909.5	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1723	1723	1723	1723	1723	
5°	1733	1715	1720	1713	1712	164
15°	1670	1653	1659	1655	1652	471
25°	1549	1532	1540	1527	1526	713
35°	1374	1361	1367	1351	1350	859
45°	1160	1150	1150	1135	1135	894
55°	908	904	899	887	887	811
65°	631	624	618	607	606	622
75°	332	324	322	317	315	349
85°	66	72	75	76	75	81
90°	0	0	0	0	0	4
95°	24	120	409	266	186	26
105°	92	159	694	898	886	97
115°	169	216	557	1057	1178	167
125°	240	277	484	840	987	215
135°	295	330	464	663	762	228
145°	349	375	455	563	607	218
155°	400	418	461	499	517	185
165°	442	449	467	474	481	125
175°	468	466	468	464	463	44
180°	463	463	463	463	463	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1723.0	1723.0	1723.0	1723.0	1723.0
2.5°	1734.8	1719.4	1723.8	1720.5	1713.6
5°	1732.8	1714.6	1720.1	1713.2	1712.2
7.5°	1719.5	1701.2	1706.7	1702.6	1701.6
10°	1709.3	1691.0	1696.5	1691.6	1690.6
12.5°	1695.1	1677.7	1683.2	1677.5	1676.5
15°	1670.0	1652.8	1659.2	1655.2	1652.4
17.5°	1639.2	1621.6	1629.2	1623.2	1619.8
20°	1618.0	1598.8	1607.2	1597.4	1595.5
22.5°	1592.1	1572.9	1581.3	1569.1	1568.8
25°	1549.3	1532.1	1540.5	1526.7	1525.8
27.5°	1501.3	1485.1	1494.0	1477.3	1476.1
30°	1465.9	1450.6	1461.0	1444.3	1442.4
32.5°	1429.8	1416.8	1423.3	1409.0	1406.3
35°	1373.7	1361.2	1366.8	1351.1	1350.1
37.5°	1313.5	1301.0	1306.2	1291.2	1289.5
40°	1272.6	1260.2	1263.8	1248.1	1247.1
42.5°	1227.9	1217.7	1219.8	1203.4	1203.9
45°	1159.8	1150.2	1150.0	1135.3	1135.3
47.5°	1087.4	1077.8	1078.0	1064.4	1063.2
50°	1037.1	1031.4	1029.3	1016.5	1014.6
52.5°	985.3	981.1	977.5	964.7	964.3
55°	907.6	903.8	898.8	887.0	887.0
57.5°	827.9	823.5	817.2	805.4	804.4
60°	772.2	769.3	761.4	749.6	748.7
62.5°	716.5	711.3	704.9	693.9	692.9
65°	630.9	624.2	618.2	607.3	606.4
67.5°	542.0	534.5	529.5	521.9	519.1
70°	480.8	474.1	469.0	463.1	460.2
72.5°	419.6	413.6	410.1	404.2	401.3
75°	331.6	324.0	321.8	316.9	315.0
77.5°	242.4	238.5	236.7	233.1	230.4
80°	183.5	183.5	182.5	180.5	178.6
82.5°	132.5	134.0	135.4	135.0	133.1
85°	65.7	71.5	74.6	75.5	74.6
87.5°	18.8	25.0	29.8	30.6	29.8
90°	0.0	0.0	0.0	0.0	0.0
92.5°	7.8	64.6	152.3	74.0	50.2
95°	23.5	119.5	409.2	266.1	186.4
97.5°	41.8	132.4	538.9	519.2	445.7
100°	55.9	140.4	610.3	644.3	583.8
102.5°	69.3	147.6	657.4	748.4	712.6
105°	92.2	159.4	693.7	897.5	886.0
107.5°	114.8	173.3	672.3	1017.2	1044.2
110°	130.5	185.2	637.8	1068.7	1119.6



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	146.2	197.0	607.2	1081.3	1168.2
115°	168.8	215.8	557.3	1056.6	1178.4
117.5°	191.1	235.5	528.1	999.8	1142.5
120°	206.1	247.3	509.2	955.2	1104.8
122.5°	221.8	259.9	497.5	909.6	1057.0
125°	240.4	276.9	483.7	840.3	987.1
127.5°	258.8	293.2	474.1	781.6	910.6
130°	269.8	303.4	471.0	740.8	867.4
132.5°	280.0	315.2	466.3	711.3	818.7
135°	295.3	329.9	464.1	662.6	762.4
137.5°	309.9	344.6	457.2	629.7	704.9
140°	320.9	352.5	457.2	606.0	675.1
142.5°	331.8	363.5	453.3	585.3	643.7
145°	349.3	375.2	455.3	563.2	607.4
147.5°	365.6	390.7	454.1	537.7	574.2
150°	375.8	397.9	457.2	526.6	555.4
152.5°	386.8	408.1	456.5	514.7	540.5
155°	400.3	417.6	461.2	498.9	517.1
157.5°	416.6	431.4	460.2	492.8	503.6
160°	422.9	435.4	464.1	484.9	492.6
162.5°	433.1	444.0	462.5	482.5	487.1
165°	442.5	449.2	467.1	474.1	480.8
167.5°	454.1	458.5	465.9	473.5	473.7
170°	457.2	460.1	469.0	468.1	472.9
172.5°	462.7	464.9	466.7	468.8	465.9
175°	468.0	466.1	468.0	464.1	463.1
177.5°	467.1	467.1	465.5	463.8	460.0
180°	463.1	463.1	463.1	463.1	463.1

(END OF REPORT)