

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: P564806

Luminaire Tested: **SQ4-PW1-075U-125D-940-1D-UNV-STD-W-4**

Issue Date: 7/30/2021

**Test Information**

Test Method: LM-79-2019  
Report Number: P564806  
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1910-536-22, G2-2106-289-3)  
Test Lab: INNOVATION CENTER  
Issue Date: 7/30/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: CORELITE  
Catalog Number: SQ4-PW1-075U-125D-940-1D-UNV-STD-W-4  
Description: CORELITE SQ4 SUSPENDED LED LUMINAIRE WITH PERCEIVE WAVES CONTINUOUS LENS.  
DOWNLIGHT 1250 LUMENS PER FOOT  
UPLIGHT 750 LUMENS PER FOOT  
Light Source: 4000K CCT, 90 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

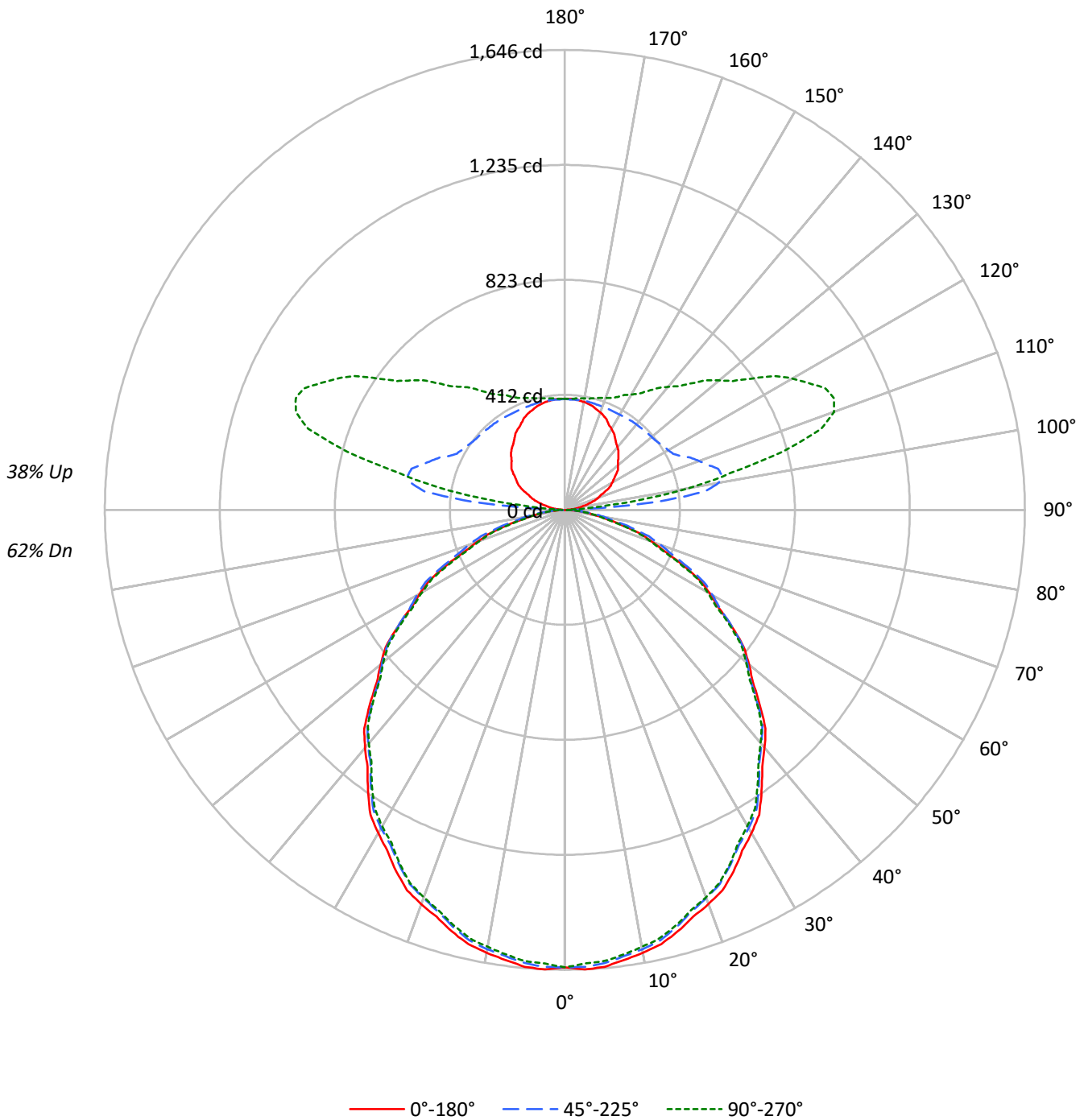
Lumens per Lamp: N/A  
Luminaire Lumens: 6754.5 lumens  
Efficiency: N/A  
Efficacy: 108.8 lumens/watt  
Spacing Criteria (0/90/45): 1.22 / 1.19 / 1.31  
Luminous Opening: Rectangular (W 0.29' x L: 4' x H: 0')  
CIE Type: Semi-Direct

Input Watts (W): 62.1  
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	101	96	92	89	94	90	87	84	79	77	74	69	67	65	59	58	57	52
2	92	84	78	73	86	79	74	69	69	65	62	61	57	55	52	50	48	44
3	84	74	67	61	78	70	63	58	61	56	52	54	50	46	46	43	41	37
4	77	66	58	51	71	62	55	49	55	49	44	48	43	40	42	38	35	32
5	70	59	50	44	66	55	48	42	49	43	38	43	38	35	37	34	31	28
6	65	53	44	38	61	50	42	37	44	38	34	39	34	30	34	30	27	24
7	60	48	39	34	56	45	38	32	40	34	30	35	31	27	31	27	24	22
8	56	43	35	30	52	41	34	29	37	31	26	32	28	24	29	25	22	19
9	52	40	32	27	49	38	31	26	34	28	24	30	25	22	26	22	20	18
10	49	36	29	24	46	35	28	23	31	25	21	28	23	20	24	21	18	16

**AVERAGE LUMINANCE (cd/sqm):**

	0°	45°	90°
0°	15105	15105	15105
5°	15203	15082	15016
10°	15081	14960	14878
15°	14922	14756	14701
20°	14743	14516	14488
25°	14537	14273	14229
30°	14230	14015	13923
35°	13825	13631	13550
40°	13394	13186	13134
45°	12873	12705	12647
50°	12340	12236	12153
55°	11763	11763	11578
60°	11046	11260	10859
65°	10108	10612	9857
70°	8910	9768	8678
75°	7611	8741	7404
80°	5903	7359	5977
85°	3822	5653	5039



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	154.2	2.3
10°-20°	435.3	6.4
20°-30°	645.6	9.6
30°-40°	755.4	11.2
40°-50°	752.1	11.1
50°-60°	649.5	9.6
60°-70°	467.5	6.9
70°-80°	245.2	3.6
80°-90°	61.8	0.9
90°-100°	187.4	2.8
100°-110°	515.5	7.6
110°-120°	532.1	7.9
120°-130°	426.3	6.3
130°-140°	334.8	5.0
140°-150°	256.6	3.8
150°-160°	184.5	2.7
160°-170°	112.8	1.7
170°-180°	38.0	0.6
0°-30°	1235.0	18.3
0°-40°	1990.5	29.5
0°-60°	3392.0	50.2
0°-90°	4166.4	61.7
90°-120°	1235.0	18.3
90°-150°	2252.7	33.4
90°-180°	2588.0	38.3
0°-180°	6754.5	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	1637	1637	1637	1637	1637	
5°	1642	1623	1628	1624	1621	155
15°	1562	1542	1545	1542	1539	440
25°	1428	1404	1402	1394	1398	657
35°	1228	1211	1210	1199	1203	767
45°	987	978	974	971	969	761
55°	731	730	731	721	720	653
65°	463	477	486	467	452	459
75°	214	233	245	229	208	229
85°	36	47	53	50	48	48
90°	1	3	6	8	8	3
95°	28	102	331	142	90	29
105°	92	142	568	865	807	97
115°	163	199	456	907	1030	161
125°	225	256	413	699	819	201
135°	271	301	402	566	640	209
145°	314	335	396	482	519	197
155°	355	367	393	433	446	163
165°	384	389	395	411	413	108
175°	397	398	396	401	400	38
180°	397	397	397	397	397	

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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	1637.2	1637.2	1637.2	1637.2	1637.2
2.5°	1646.4	1632.9	1637.2	1633.5	1625.6
5°	1641.5	1623.2	1628.5	1624.1	1621.3
7.5°	1624.8	1607.9	1611.8	1607.1	1605.5
10°	1609.8	1592.9	1596.8	1591.0	1588.1
12.5°	1592.5	1574.4	1578.3	1572.5	1570.8
15°	1562.2	1542.4	1544.9	1541.9	1539.1
17.5°	1527.0	1507.0	1507.4	1502.7	1502.2
20°	1501.6	1480.4	1478.5	1472.8	1475.6
22.5°	1473.9	1451.6	1449.7	1441.7	1445.6
25°	1428.0	1404.1	1402.1	1393.5	1397.7
27.5°	1374.9	1351.3	1351.3	1339.3	1343.8
30°	1335.7	1313.1	1315.5	1301.2	1306.9
32.5°	1294.2	1273.9	1275.1	1260.8	1266.5
35°	1227.5	1210.6	1210.2	1198.8	1203.0
37.5°	1159.4	1144.5	1142.1	1135.5	1136.7
40°	1112.1	1099.4	1094.8	1090.5	1090.5
42.5°	1062.5	1050.9	1046.4	1043.2	1042.0
45°	986.6	978.2	973.7	970.7	969.3
47.5°	911.6	903.7	899.8	897.8	896.3
50°	859.7	854.1	852.5	848.1	846.7
52.5°	807.8	804.4	802.9	797.4	795.9
55°	731.3	729.9	731.3	721.2	719.8
57.5°	651.7	654.0	658.6	645.0	641.6
60°	598.6	604.3	610.2	594.2	588.5
62.5°	544.4	553.4	561.7	543.3	535.4
65°	463.0	477.1	486.1	467.0	451.5
67.5°	384.6	402.0	412.8	392.2	374.7
70°	330.3	350.1	362.1	341.4	321.7
72.5°	283.0	305.0	314.7	295.3	275.5
75°	213.5	233.2	245.2	228.9	207.7
77.5°	151.5	170.1	180.0	165.8	148.3
80°	111.1	130.8	138.5	126.6	112.5
82.5°	78.8	95.1	100.4	93.3	83.7
85°	36.1	47.3	53.4	50.4	47.6
87.5°	9.4	17.8	23.1	23.5	24.6
90°	0.8	3.3	5.9	7.6	7.6
92.5°	11.7	49.8	86.4	33.2	27.2
95°	27.9	102.3	331.3	141.7	90.4
97.5°	45.5	113.4	505.6	389.6	274.9
100°	58.3	120.3	560.4	565.6	461.5
102.5°	70.5	128.5	574.6	701.8	606.2
105°	92.1	141.7	568.0	865.1	807.2
107.5°	112.8	158.0	535.7	945.1	962.2
110°	127.6	169.0	511.4	964.9	1024.5

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**CANDELA DISTRIBUTION (continued):**

	0°	22.5°	45°	67.5°	90°
112.5°	141.2	181.2	487.0	952.1	1042.7
115°	163.1	198.7	455.6	907.2	1029.5
117.5°	184.1	216.8	435.6	844.2	982.5
120°	196.9	228.4	426.9	796.9	939.9
122.5°	208.4	239.8	420.8	755.5	891.2
125°	224.8	256.2	413.3	699.2	819.1
127.5°	240.4	270.3	408.4	652.2	757.4
130°	248.5	279.1	405.7	624.3	720.2
132.5°	258.0	288.6	403.7	599.7	686.4
135°	271.3	301.1	401.5	565.5	639.9
137.5°	283.8	311.4	399.6	537.8	599.1
140°	293.3	318.9	399.0	519.4	574.8
142.5°	301.4	325.1	397.6	503.0	550.4
145°	313.6	335.1	395.6	481.8	519.0
147.5°	326.6	345.1	394.6	463.0	492.8
150°	334.7	351.3	393.9	452.7	475.9
152.5°	342.2	357.4	393.2	443.9	463.0
155°	355.0	366.6	393.0	433.1	445.5
157.5°	364.3	373.7	393.0	424.2	432.8
160°	371.1	378.5	393.0	419.4	426.0
162.5°	376.5	382.6	393.7	415.3	420.6
165°	383.7	388.7	394.7	410.9	413.3
167.5°	388.8	392.6	395.6	407.1	407.8
170°	392.2	394.7	395.6	405.7	405.7
172.5°	394.9	396.1	395.6	403.7	403.0
175°	397.3	398.1	395.6	400.6	399.8
177.5°	397.9	397.9	395.2	399.3	397.9
180°	397.3	397.3	397.3	397.3	397.3

(END OF REPORT)