

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: P561914

Luminaire Tested: **SQ4-PR1-075U-100D-92765-1D-UNV-STD-W-4 (6500K)**

Issue Date: 7/30/2021

**Test Information**

Test Method: LM-79-2019  
Report Number: P561914  
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2101-105-51, G2-2106-289-4)  
Test Lab: INNOVATION CENTER  
Issue Date: 7/30/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: CORELITE  
Catalog Number: SQ4-PR1-075U-100D-92765-1D-UNV-STD-W-4 (6500K)  
Description: CORELITE SQ4 SUSPENDED LED LUMINAIRE WITH PERCEIVE RIPPLE CONTINUOUS LENS  
DOWNLIGHT 1000 LUMENS PER FOOT  
UPLIGHT 750 LUMENS PER FOOT  
Light Source: 2700K/65000K CCT, 90 CRI LEDS, TUNED TO 6500K CCT  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 7710.2 lumens  
Efficiency: N/A  
Efficacy: 117.5 lumens/watt  
Spacing Criteria (0/90/45): 1.26 / 1.24 / 1.35  
Luminous Opening: Rectangular (W 0.29' x L: 4' x H: 0')  
CIE Type: General Diffuse

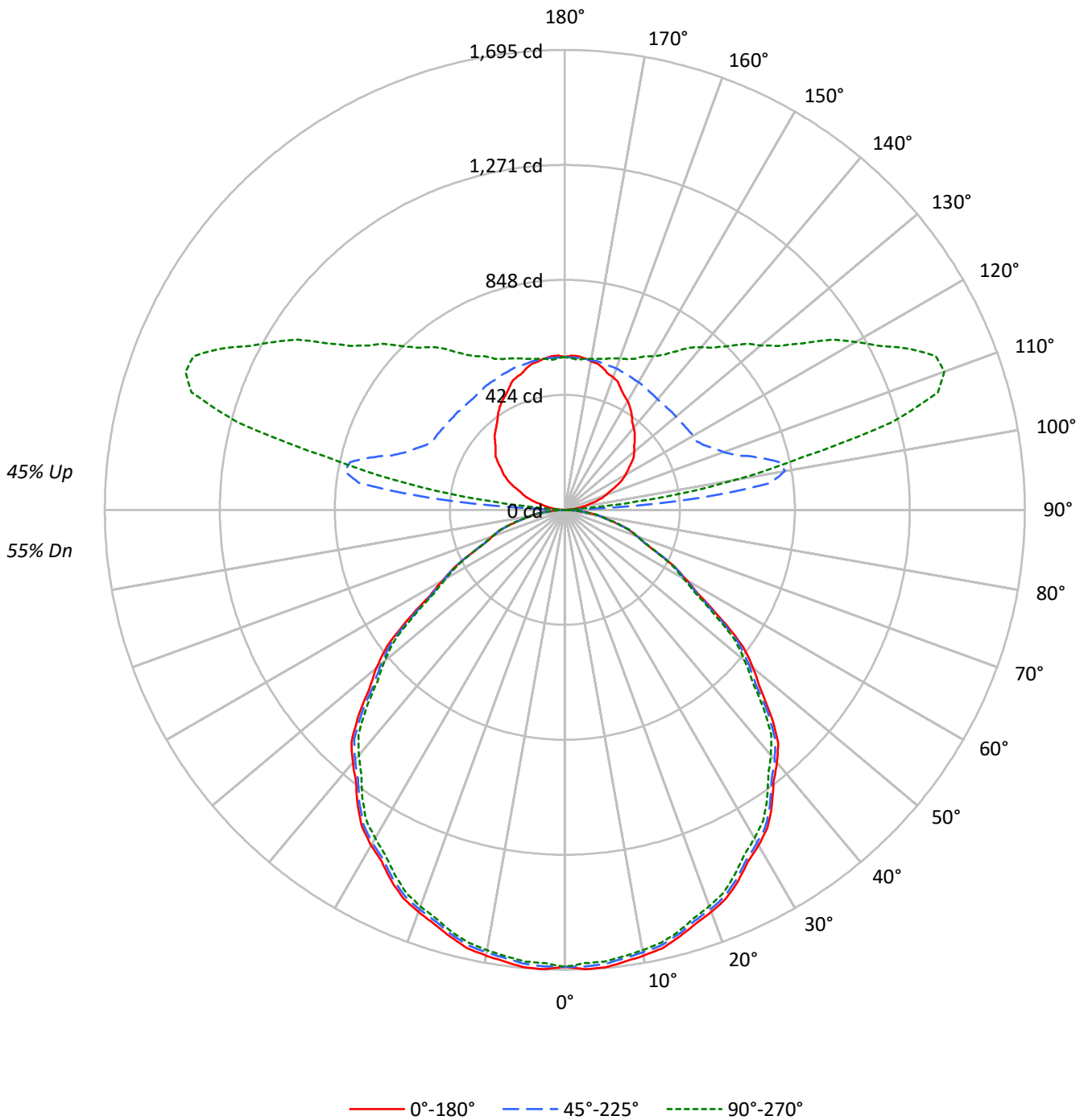
Input Watts (W): 65.6  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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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	108	108	108	108	100	100	100	100	86	86	86	73	73	73	60	60	60	55
1	99	95	91	88	92	88	85	82	76	73	71	64	63	61	54	53	52	47
2	91	83	77	72	84	78	72	68	67	63	59	57	54	52	48	46	44	40
3	83	73	66	60	77	69	62	57	59	54	50	51	47	44	43	40	38	34
4	76	65	57	51	70	61	54	49	53	47	43	45	41	38	38	35	33	29
5	70	58	50	44	65	54	47	42	47	42	37	41	36	33	35	31	29	26
6	64	52	44	38	60	49	42	37	43	37	33	37	32	29	31	28	25	23
7	60	47	39	34	55	44	37	32	39	33	29	34	29	26	29	25	23	20
8	55	43	35	30	51	40	33	29	35	30	26	31	26	23	26	23	20	18
9	51	39	32	27	48	37	30	26	33	27	23	28	24	21	24	21	18	16
10	48	36	29	24	45	34	27	23	30	25	21	26	22	19	23	19	17	15

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

	0°	45°	90°
0°	15539	15539	15539
5°	15680	15558	15478
10°	15630	15521	15439
15°	15561	15464	15381
20°	15483	15382	15268
25°	15374	15270	15093
30°	15208	15099	14883
35°	14983	14853	14640
40°	14642	14484	14223
45°	14045	13799	13515
50°	12993	12681	12431
55°	11340	11084	10851
60°	9557	9475	9289
65°	8265	8298	8235
70°	7591	7631	7631
75°	7290	7290	7343
80°	6859	6939	6859
85°	5526	6140	6140



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	159.3	2.1
10°-20°	455.7	5.9
20°-30°	687.3	8.9
30°-40°	819.0	10.6
40°-50°	807.4	10.5
50°-60°	617.1	8.0
60°-70°	381.9	5.0
70°-80°	216.9	2.8
80°-90°	66.0	0.9
90°-100°	256.7	3.3
100°-110°	730.5	9.5
110°-120°	699.9	9.1
120°-130°	553.9	7.2
130°-140°	444.6	5.8
140°-150°	348.1	4.5
150°-160°	254.7	3.3
160°-170°	157.8	2.0
170°-180°	53.5	0.7
0°-30°	1302.3	16.9
0°-40°	2121.2	27.5
0°-60°	3545.7	46.0
0°-90°	4210.4	54.6
90°-120°	1687.1	21.9
90°-150°	3033.8	39.3
90°-180°	3500.0	45.4
0°-180°	7710.2	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	1684	1684	1684	1684	1684	
5°	1693	1674	1680	1674	1671	161
15°	1629	1612	1619	1613	1610	460
25°	1510	1492	1500	1484	1483	695
35°	1330	1315	1319	1301	1300	830
45°	1076	1062	1058	1039	1036	825
55°	705	694	689	677	675	632
65°	379	376	380	377	377	384
75°	204	204	204	206	206	216
85°	52	55	58	58	58	61
90°	0	0	0	0	0	3
95°	28	111	497	172	106	32
105°	114	172	744	1315	1250	120
115°	211	255	564	1196	1404	208
125°	298	330	539	894	1069	267
135°	364	395	532	755	854	281
145°	430	452	537	654	712	268
155°	491	502	550	591	615	227
165°	542	544	556	568	576	152
175°	568	565	562	559	555	54
180°	563	563	563	563	563	

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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	1684.2	1684.2	1684.2	1684.2	1684.2
2.5°	1694.7	1679.9	1684.2	1680.6	1672.6
5°	1693.0	1674.5	1679.9	1674.0	1671.2
7.5°	1679.9	1661.7	1667.1	1661.3	1659.6
10°	1668.3	1651.3	1656.7	1650.8	1648.0
12.5°	1655.5	1637.4	1643.9	1636.9	1634.1
15°	1629.1	1612.1	1619.0	1613.1	1610.3
17.5°	1600.1	1582.0	1588.8	1582.0	1578.3
20°	1576.9	1559.9	1566.7	1556.6	1555.1
22.5°	1551.4	1534.3	1541.2	1527.6	1527.3
25°	1510.2	1491.7	1500.0	1484.0	1482.6
27.5°	1461.1	1444.1	1451.0	1434.7	1433.0
30°	1427.5	1410.5	1417.3	1399.8	1397.0
32.5°	1389.2	1373.3	1379.0	1361.6	1359.9
35°	1330.3	1314.7	1318.7	1301.2	1299.8
37.5°	1263.3	1249.1	1251.4	1232.2	1230.8
40°	1215.7	1201.5	1202.6	1182.3	1180.9
42.5°	1163.5	1149.3	1148.1	1127.7	1126.3
45°	1076.4	1062.2	1057.6	1038.6	1035.8
47.5°	977.2	963.0	954.3	938.8	936.9
50°	905.2	891.0	883.5	870.3	866.1
52.5°	827.5	813.3	806.9	794.9	790.6
55°	705.0	693.7	689.1	677.4	674.6
57.5°	588.7	581.0	579.7	568.4	567.2
60°	517.9	513.6	513.5	503.4	503.4
62.5°	457.5	454.4	456.7	450.0	448.8
65°	378.6	375.8	380.1	377.2	377.2
67.5°	316.3	316.3	318.9	317.7	317.7
70°	281.4	281.4	282.9	282.9	282.9
72.5°	250.1	249.0	252.7	252.7	251.5
75°	204.5	204.5	204.5	206.0	206.0
77.5°	159.3	159.6	160.7	160.4	159.3
80°	129.1	130.5	130.6	129.1	129.1
82.5°	98.9	100.4	100.4	100.1	98.9
85°	52.2	55.1	58.0	58.0	58.0
87.5°	15.1	19.6	23.2	23.2	22.1
90°	0.0	0.0	0.0	0.0	0.0
92.5°	8.6	45.4	105.4	30.7	23.1
95°	27.8	110.6	497.0	172.0	106.0
97.5°	51.2	129.5	765.4	547.7	375.3
100°	67.5	140.8	823.7	834.3	642.7
102.5°	85.5	152.9	810.8	1068.0	900.6
105°	113.5	172.2	744.4	1314.9	1250.0
107.5°	142.0	194.6	666.9	1384.6	1442.4
110°	161.7	211.0	622.3	1357.9	1487.8

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**CANDELA DISTRIBUTION (continued):**

	0°	22.5°	45°	67.5°	90°
112.5°	180.6	227.3	592.3	1294.9	1480.1
115°	211.0	255.0	564.5	1195.8	1404.3
117.5°	237.8	279.1	548.0	1087.5	1308.3
120°	259.2	293.8	546.3	1025.6	1237.2
122.5°	276.4	310.9	542.0	971.3	1167.7
125°	297.8	330.2	538.8	894.1	1069.0
127.5°	321.1	351.5	537.1	848.0	992.1
130°	333.1	363.5	534.5	815.8	941.5
132.5°	346.0	375.5	534.5	790.8	906.4
135°	364.2	394.6	532.4	755.2	853.7
137.5°	381.3	410.9	532.1	725.2	810.2
140°	394.2	424.5	531.3	700.2	781.9
142.5°	408.7	434.1	533.9	680.3	753.6
145°	429.5	451.5	536.6	653.7	712.3
147.5°	447.3	468.7	541.4	626.7	677.4
150°	462.7	477.4	543.1	617.8	653.4
152.5°	474.7	490.2	544.8	605.7	638.8
155°	490.6	502.1	549.5	590.7	614.8
157.5°	510.3	517.2	550.6	583.9	601.1
160°	520.6	525.8	554.8	578.7	593.4
162.5°	526.6	532.6	555.7	574.4	585.7
165°	542.0	544.1	555.9	567.9	576.3
167.5°	552.5	550.6	560.8	566.3	569.6
170°	555.9	554.9	559.1	560.3	564.5
172.5°	563.6	560.1	561.7	558.6	561.9
175°	567.7	564.6	562.3	559.0	554.8
177.5°	569.4	564.4	561.7	558.3	559.1
180°	563.4	563.4	563.4	563.4	563.4

(END OF REPORT)