

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: P564160

Luminaire Tested: **SQ4-PR1-0U-050D-940-1D-UNV-STD-W-8**

Issue Date: 7/30/2021

**Test Information**

Test Method: LM-79-2019  
Report Number: P564160  
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (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-PR1-0U-050D-940-1D-UNV-STD-W-8  
Description: CORELITE SQ4 SUSPENDED LED LUMINAIRE WITH PERCEIVE RIPPLE CONTINUOUS LENS.  
DOWNLIGHT 500 LUMENS PER FOOT  
DIRECT ONLY  
Light Source: 4000K CCT, 90 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

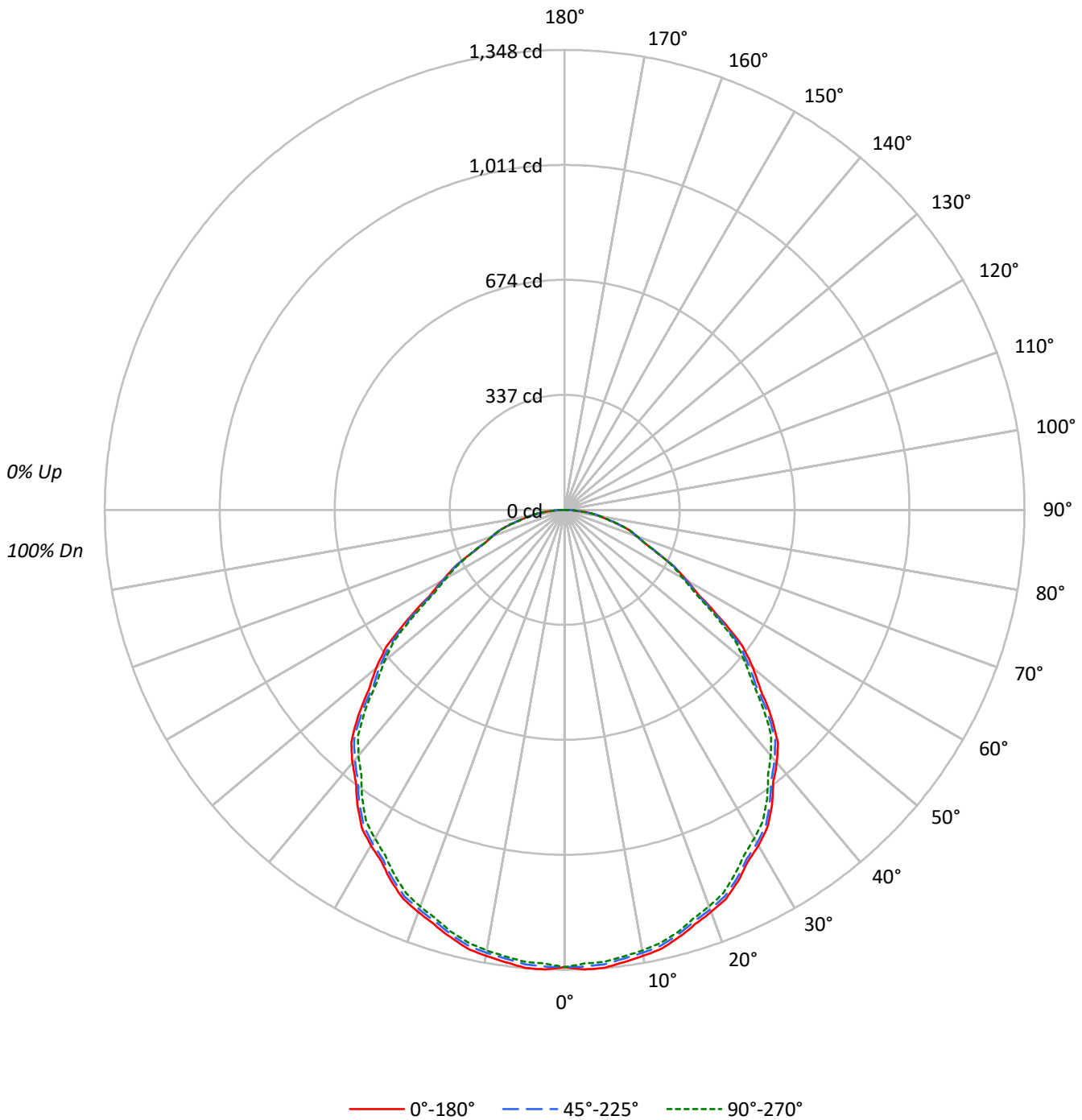
Lumens per Lamp: N/A  
Luminaire Lumens: 3350.4 lumens  
Efficiency: N/A  
Efficacy: 95.2 lumens/watt  
Spacing Criteria (0/90/45): 1.26 / 1.24 / 1.35  
Luminous Opening: Rectangular (W 0.29' x L: 8' x H: 0')  
CIE Type: Direct

Input Watts (W): 35.2  
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	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100
1	110	105	101	98	107	103	99	96	99	96	93	95	92	90	91	89	87	85
2	100	93	86	81	98	91	85	80	87	82	78	84	80	76	81	78	75	72
3	92	82	74	68	90	80	73	68	78	71	66	75	70	65	72	68	64	62
4	85	73	65	58	82	72	64	58	69	63	57	67	61	56	65	60	56	54
5	78	66	57	51	76	65	57	50	63	55	50	61	54	49	59	53	49	47
6	72	59	51	45	70	58	50	44	57	49	44	55	49	44	53	48	43	41
7	67	54	46	40	65	53	45	39	52	44	39	50	44	39	49	43	39	37
8	63	49	41	35	61	49	41	35	47	40	35	46	40	35	45	39	35	33
9	58	45	37	32	57	45	37	32	44	37	32	43	36	32	42	36	31	30
10	55	42	34	29	54	41	34	29	40	34	29	40	33	29	39	33	29	27

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

	0°	45°	90°
0°	6182	6182	6182
5°	6238	6190	6158
10°	6218	6175	6143
15°	6191	6153	6119
20°	6160	6120	6075
25°	6117	6075	6005
30°	6051	6008	5922
35°	5962	5909	5825
40°	5826	5763	5659
45°	5588	5490	5377
50°	5169	5045	4946
55°	4512	4410	4317
60°	3802	3770	3696
65°	3289	3301	3276
70°	3020	3036	3036
75°	2902	2902	2921
80°	2728	2760	2728
85°	2202	2445	2445



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	126.7	3.8
10°-20°	362.6	10.8
20°-30°	546.9	16.3
30°-40°	651.7	19.5
40°-50°	642.5	19.2
50°-60°	491.0	14.7
60°-70°	303.9	9.1
70°-80°	172.6	5.2
80°-90°	52.5	1.6
90°-100°	0.0	0.0
100°-110°	0.0	0.0
110°-120°	0.0	0.0
120°-130°	0.0	0.0
130°-140°	0.0	0.0
140°-150°	0.0	0.0
150°-160°	0.0	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-30°	1036.3	30.9
0°-40°	1687.9	50.4
0°-60°	2821.5	84.2
0°-90°	3350.4	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3350.4	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	1340	1340	1340	1340	1340	
5°	1347	1332	1337	1332	1330	128
15°	1296	1283	1288	1284	1281	366
25°	1202	1187	1194	1181	1180	553
35°	1059	1046	1049	1035	1034	661
45°	856	845	842	826	824	656
55°	561	552	548	539	537	503
65°	301	299	302	300	300	305
75°	163	163	163	164	164	172
85°	42	44	46	46	46	50
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	1340.2	1340.2	1340.2	1340.2	1340.2
2.5°	1348.5	1336.8	1340.2	1337.3	1331.0
5°	1347.1	1332.5	1336.8	1332.1	1329.8
7.5°	1336.8	1322.3	1326.6	1321.9	1320.6
10°	1327.5	1314.0	1318.3	1313.6	1311.4
12.5°	1317.4	1302.9	1308.1	1302.5	1300.3
15°	1296.4	1282.8	1288.3	1283.6	1281.3
17.5°	1273.3	1258.8	1264.3	1258.9	1256.0
20°	1254.8	1241.3	1246.7	1238.6	1237.5
22.5°	1234.5	1220.9	1226.4	1215.5	1215.3
25°	1201.7	1187.0	1193.6	1180.9	1179.8
27.5°	1162.7	1149.1	1154.6	1141.6	1140.3
30°	1135.9	1122.4	1127.8	1113.9	1111.7
32.5°	1105.4	1092.8	1097.3	1083.5	1082.1
35°	1058.6	1046.1	1049.3	1035.4	1034.3
37.5°	1005.2	993.9	995.8	980.5	979.4
40°	967.4	956.1	957.0	940.8	939.7
42.5°	925.8	914.5	913.6	897.4	896.2
45°	856.5	845.3	841.5	826.5	824.2
47.5°	777.6	766.3	759.3	747.1	745.5
50°	720.3	709.0	703.0	692.5	689.2
52.5°	658.5	647.2	642.1	632.5	629.1
55°	561.0	552.0	548.3	539.0	536.8
57.5°	468.4	462.3	461.3	452.3	451.4
60°	412.1	408.7	408.6	400.6	400.6
62.5°	364.1	361.6	363.4	358.1	357.2
65°	301.3	299.0	302.4	300.1	300.1
67.5°	251.7	251.7	253.7	252.8	252.8
70°	223.9	223.9	225.1	225.1	225.1
72.5°	199.0	198.1	201.1	201.1	200.2
75°	162.8	162.8	162.8	163.9	163.9
77.5°	126.7	127.0	127.9	127.7	126.7
80°	102.7	103.9	103.9	102.7	102.7
82.5°	78.7	79.9	79.9	79.6	78.7
85°	41.6	43.8	46.2	46.2	46.2
87.5°	12.0	15.6	18.5	18.4	17.5
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)