

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: P564524

Luminaire Tested: **SQ4-PW1-025U-050D-830-1D-UNV-STD-W-8**

Issue Date: 7/30/2021

**Test Information**

Test Method: LM-79-2019  
Report Number: P564524  
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1910-536-32, 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-PW1-025U-050D-830-1D-UNV-STD-W-8  
Description: CORELITE SQ4 SUSPENDED LED LUMINAIRE WITH PERCEIVE WAVES CONTINUOUS LENS.  
DOWNLIGHT 500 LUMENS PER FOOT  
UPLIGHT 250 LUMENS PER FOOT  
Light Source: 3000K CCT, 80 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

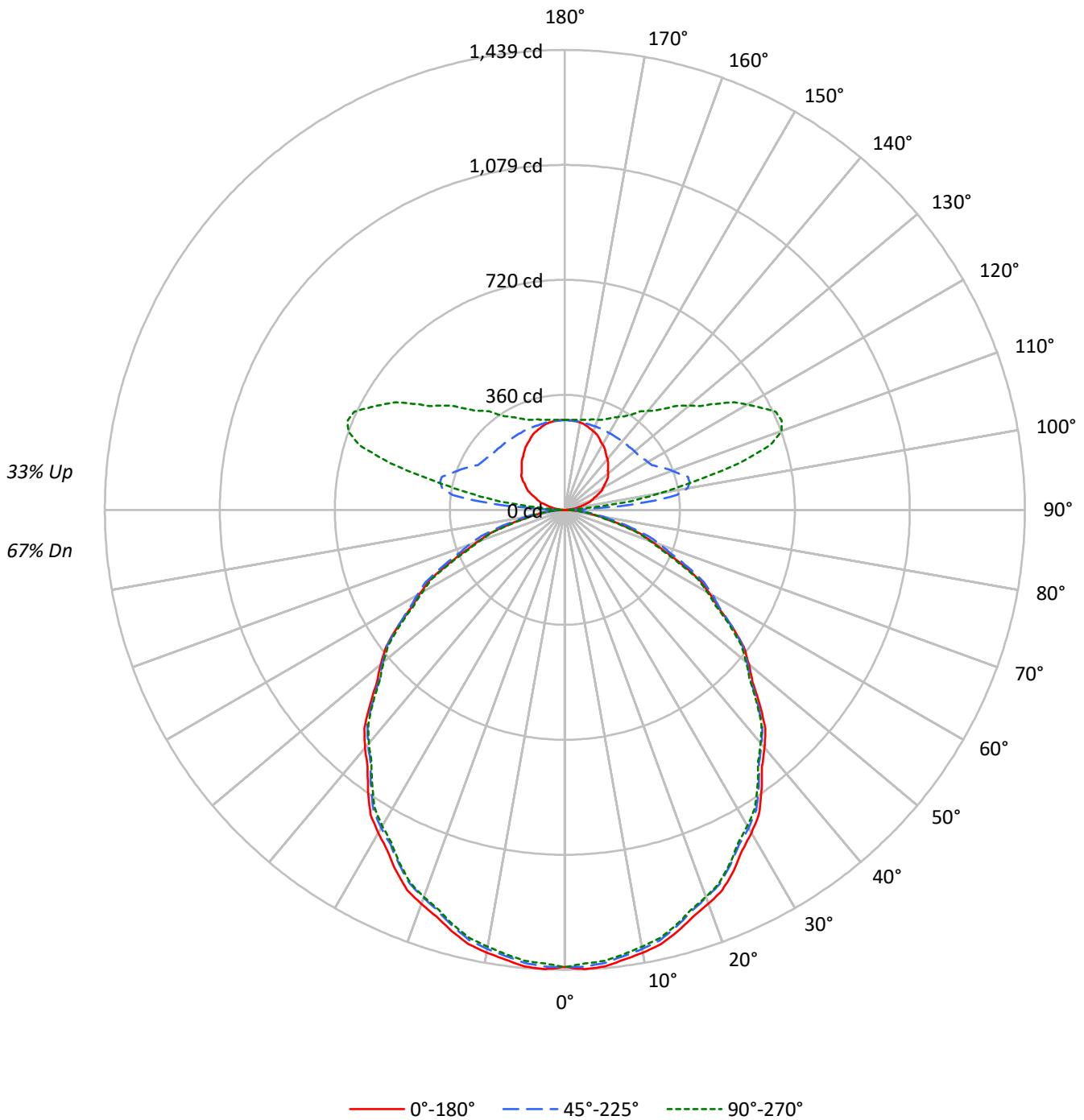
Lumens per Lamp: N/A  
Luminaire Lumens: 5464.7 lumens  
Efficiency: N/A  
Efficacy: 119.6 lumens/watt  
Spacing Criteria (0/90/45): 1.22 / 1.19 / 1.31  
Luminous Opening: Rectangular (W 0.29' x L: 8' x H: 0')  
CIE Type: Semi-Direct

Input Watts (W): 45.7  
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	50	30	10	0	
RCR																						
0	111	111	111	111	105	105	105	105	93	93	93	82	82	82	71	71	71	67				
1	102	97	93	90	96	92	88	85	82	79	77	72	70	68	63	62	61	56				
2	93	85	79	74	87	80	75	70	72	67	64	63	60	57	56	53	51	47				
3	85	75	67	61	79	71	64	59	63	58	54	56	52	49	50	46	44	40				
4	78	66	58	52	73	63	56	50	56	50	46	50	45	42	44	41	38	35				
5	71	59	51	45	67	56	49	43	50	44	40	45	40	36	40	36	33	30				
6	66	53	45	39	62	51	43	38	46	39	35	41	36	32	36	32	29	26				
7	61	48	40	34	57	46	38	33	41	35	31	37	32	28	33	29	26	23				
8	57	44	36	30	53	42	35	29	38	32	27	34	29	25	31	26	23	21				
9	53	40	32	27	50	38	31	26	35	29	25	31	26	23	28	24	21	19				
10	49	37	30	25	47	35	28	24	32	26	22	29	24	21	26	22	19	17				

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

	0°	45°	90°
0°	6600	6600	6600
5°	6642	6590	6560
10°	6589	6536	6500
15°	6519	6447	6423
20°	6441	6342	6330
25°	6351	6236	6216
30°	6217	6123	6083
35°	6040	5955	5920
40°	5852	5761	5738
45°	5624	5551	5526
50°	5391	5346	5310
55°	5139	5139	5058
60°	4826	4919	4744
65°	4416	4637	4306
70°	3893	4268	3791
75°	3324	3820	3235
80°	2580	3214	2611
85°	1667	2467	2202



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	134.7	2.5
10°-20°	380.3	7.0
20°-30°	564.1	10.3
30°-40°	660.1	12.1
40°-50°	657.2	12.0
50°-60°	567.5	10.4
60°-70°	408.5	7.5
70°-80°	214.2	3.9
80°-90°	54.6	1.0
90°-100°	137.1	2.5
100°-110°	360.4	6.6
110°-120°	373.8	6.8
120°-130°	299.8	5.5
130°-140°	235.2	4.3
140°-150°	180.5	3.3
150°-160°	130.0	2.4
160°-170°	79.6	1.5
170°-180°	26.9	0.5
0°-30°	1079.2	19.7
0°-40°	1739.3	31.8
0°-60°	2963.9	54.2
0°-90°	3641.2	66.6
90°-120°	871.3	15.9
90°-150°	1586.9	29.0
90°-180°	1823.0	33.4
0°-180°	5464.7	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	1431	1431	1431	1431	1431	
5°	1434	1418	1423	1419	1417	136
15°	1365	1348	1350	1347	1345	385
25°	1248	1227	1225	1218	1221	574
35°	1073	1058	1058	1048	1051	671
45°	862	855	851	848	847	665
55°	639	638	639	630	629	570
65°	405	417	425	408	394	401
75°	186	204	214	200	182	200
85°	32	41	47	44	42	42
90°	2	5	14	7	7	3
95°	18	71	236	122	83	20
105°	65	98	398	605	564	69
115°	115	140	319	637	727	114
125°	160	180	290	491	579	142
135°	191	211	281	396	449	148
145°	222	236	278	338	364	139
155°	251	258	278	305	314	115
165°	270	274	278	289	292	76
175°	281	281	280	283	283	27
180°	281	281	281	281	281	

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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	1430.6	1430.6	1430.6	1430.6	1430.6
2.5°	1438.6	1426.8	1430.6	1427.4	1420.5
5°	1434.3	1418.3	1423.0	1419.2	1416.7
7.5°	1419.7	1404.9	1408.4	1404.3	1402.8
10°	1406.6	1391.8	1395.3	1390.2	1387.7
12.5°	1391.5	1375.7	1379.1	1374.1	1372.6
15°	1365.0	1347.8	1349.9	1347.3	1344.9
17.5°	1334.3	1316.8	1317.1	1313.1	1312.6
20°	1312.1	1293.6	1291.9	1286.9	1289.4
22.5°	1287.9	1268.4	1266.7	1259.7	1263.2
25°	1247.8	1226.9	1225.1	1217.6	1221.3
27.5°	1201.4	1180.7	1180.8	1170.3	1174.2
30°	1167.1	1147.4	1149.5	1137.0	1141.9
32.5°	1130.8	1113.1	1114.2	1101.7	1106.6
35°	1072.6	1057.8	1057.5	1047.5	1051.2
37.5°	1013.1	1000.1	998.0	992.2	993.2
40°	971.8	960.7	956.7	952.9	952.9
42.5°	928.4	918.3	914.3	911.5	910.5
45°	862.1	854.7	850.8	848.2	847.0
47.5°	796.6	789.7	786.2	784.5	783.2
50°	751.2	746.3	744.9	741.1	739.9
52.5°	705.8	702.9	701.5	696.7	695.5
55°	639.0	637.8	639.0	630.2	628.9
57.5°	569.5	571.4	575.5	563.6	560.6
60°	523.1	528.0	533.2	519.2	514.2
62.5°	475.7	483.6	490.8	474.8	467.9
65°	404.6	416.9	424.8	408.1	394.5
67.5°	336.0	351.3	360.7	342.7	327.5
70°	288.6	305.9	316.4	298.3	281.1
72.5°	247.3	266.5	275.0	258.0	240.7
75°	186.5	203.8	214.3	200.0	181.5
77.5°	132.3	148.6	157.3	144.9	129.6
80°	97.1	114.3	121.0	110.6	98.3
82.5°	68.8	83.1	87.7	81.5	73.1
85°	31.5	41.4	46.6	44.1	41.6
87.5°	8.4	16.0	22.0	20.6	21.6
90°	1.8	5.3	14.4	7.2	7.2
92.5°	7.6	36.5	80.8	35.8	23.1
95°	18.0	70.9	236.2	121.7	83.0
97.5°	31.4	77.9	353.5	281.1	207.0
100°	41.5	83.8	389.5	394.7	306.6
102.5°	50.1	89.6	399.6	491.7	416.2
105°	64.9	98.4	398.5	605.0	564.5
107.5°	80.1	111.1	375.8	663.9	673.7
110°	90.2	118.4	357.1	679.0	721.4



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**CANDELA DISTRIBUTION (continued):**

	0°	22.5°	45°	67.5°	90°
112.5°	100.3	127.1	339.8	669.4	734.3
115°	115.4	140.1	319.2	636.8	726.8
117.5°	130.2	152.8	305.1	591.6	691.4
120°	138.9	160.0	299.4	561.3	658.2
122.5°	147.5	168.7	295.0	530.9	626.5
125°	160.5	179.9	290.3	490.7	578.9
127.5°	171.0	190.7	286.4	458.3	532.7
130°	176.7	197.9	284.9	438.0	506.7
132.5°	182.5	203.7	283.5	420.5	482.2
135°	191.2	210.6	281.3	396.1	449.0
137.5°	200.2	219.2	281.0	377.9	421.3
140°	207.4	225.0	279.5	363.4	404.0
142.5°	213.2	229.4	279.5	353.2	388.1
145°	221.8	235.9	277.7	337.8	364.3
147.5°	230.5	244.2	277.7	325.1	347.0
150°	236.2	248.6	277.7	317.8	335.4
152.5°	242.0	251.5	277.7	311.9	325.3
155°	250.7	257.7	277.7	305.0	313.8
157.5°	257.2	263.9	277.7	298.8	305.1
160°	261.5	266.8	277.7	295.8	299.4
162.5°	265.8	269.7	277.7	292.9	296.5
165°	270.5	274.0	277.7	288.6	292.1
167.5°	274.8	276.6	279.5	286.8	288.2
170°	277.7	279.5	279.5	286.7	286.7
172.5°	279.2	279.5	279.5	285.3	283.9
175°	281.3	281.3	279.5	283.1	283.1
177.5°	281.3	281.3	279.9	282.7	281.3
180°	281.3	281.3	281.3	281.3	281.3

(END OF REPORT)