

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: P563887

Luminaire Tested: **SQ4-PR1-025U-075D-930-1D-UNV-STD-W-6**

Issue Date: 7/30/2021

**Test Information**

Test Method: LM-79-2019  
Report Number: P563887  
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1910-536-32, 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-PR1-025U-075D-930-1D-UNV-STD-W-6  
Description: CORELITE SQ4 SUSPENDED LED LUMINAIRE WITH PERCEIVE RIPPLE CONTINUOUS LENS.  
DOWNLIGHT 750 LUMENS PER FOOT  
UPLIGHT 250 LUMENS PER FOOT  
Light Source: 3000K CCT, 90 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

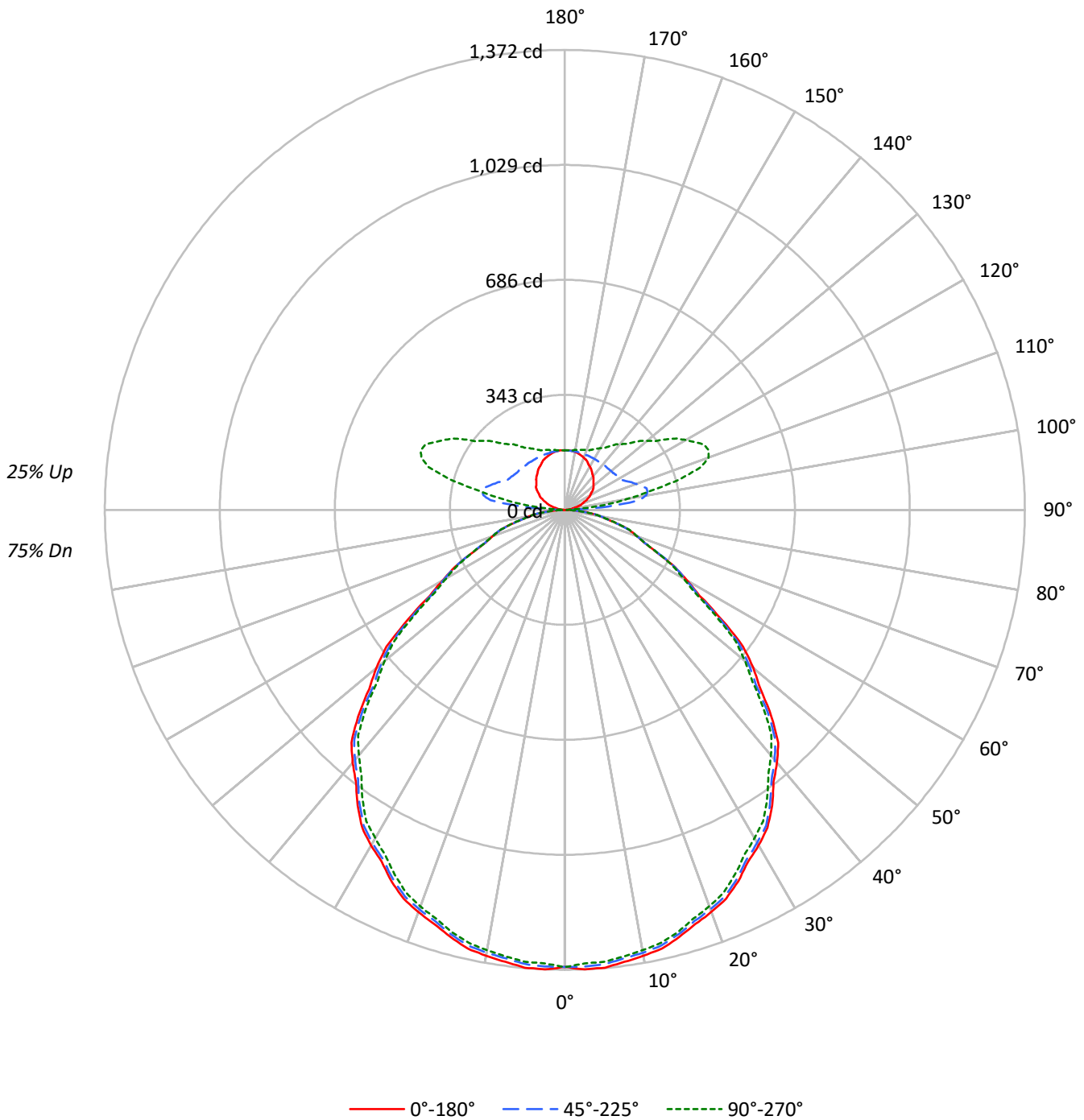
Lumens per Lamp: N/A  
Luminaire Lumens: 4563.1 lumens  
Efficiency: N/A  
Efficacy: 93.9 lumens/watt  
Spacing Criteria (0/90/45): 1.26 / 1.24 / 1.35  
Luminous Opening: Rectangular (W 0.29' x L: 6' x H: 0')  
CIE Type: Semi-Direct

Input Watts (W): 48.6  
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	113	113	113	113	107	107	107	107	97	97	97	88	88	88	79	79	79	75
1	104	99	96	92	99	95	91	88	86	83	81	78	76	74	70	69	67	64
2	95	87	81	76	90	83	78	73	76	71	68	69	65	62	62	60	58	54
3	87	77	70	64	82	74	67	62	67	62	57	61	57	53	56	52	49	46
4	80	69	61	54	76	66	58	53	60	54	49	55	50	46	50	46	43	40
5	73	62	53	47	70	59	51	46	54	48	43	50	44	40	45	41	38	35
6	68	55	47	41	64	53	46	40	49	43	38	45	40	35	41	37	33	31
7	63	50	42	36	60	48	41	35	45	38	33	41	36	32	38	33	30	27
8	58	46	38	32	56	44	37	32	41	34	30	38	32	28	35	30	27	25
9	55	42	34	29	52	40	33	28	37	31	27	35	29	26	32	27	24	22
10	51	39	31	26	49	37	30	26	35	29	24	32	27	23	30	25	22	20

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

	0°	45°	90°
0°	8388	8388	8388
5°	8464	8398	8354
10°	8437	8378	8334
15°	8400	8348	8302
20°	8357	8304	8242
25°	8299	8242	8147
30°	8209	8151	8033
35°	8088	8017	7902
40°	7903	7818	7677
45°	7582	7449	7295
50°	7014	6845	6710
55°	6122	5983	5857
60°	5158	5115	5014
65°	4462	4478	4445
70°	4098	4118	4118
75°	3935	3935	3964
80°	3702	3744	3702
85°	2985	3317	3317



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	129.0	2.8
10°-20°	369.0	8.1
20°-30°	556.5	12.2
30°-40°	663.1	14.5
40°-50°	653.8	14.3
50°-60°	499.6	10.9
60°-70°	309.2	6.8
70°-80°	175.6	3.8
80°-90°	54.4	1.2
90°-100°	86.7	1.9
100°-110°	227.9	5.0
110°-120°	236.3	5.2
120°-130°	189.6	4.2
130°-140°	148.7	3.3
140°-150°	114.2	2.5
150°-160°	82.2	1.8
160°-170°	50.3	1.1
170°-180°	17.0	0.4
0°-30°	1054.4	23.1
0°-40°	1717.5	37.6
0°-60°	2870.9	62.9
0°-90°	3410.1	74.7
90°-120°	551.0	12.1
90°-150°	1003.4	22.0
90°-180°	1153.0	25.3
0°-180°	4563.1	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	1364	1364	1364	1364	1364	
5°	1371	1356	1360	1355	1353	130
15°	1319	1305	1311	1306	1304	372
25°	1223	1208	1214	1202	1200	563
35°	1077	1064	1068	1054	1052	672
45°	872	860	856	841	839	668
55°	571	562	558	548	546	512
65°	307	304	308	305	305	311
75°	166	166	166	167	167	175
85°	42	45	47	47	47	49
90°	1	3	9	5	5	3
95°	11	45	149	77	52	13
105°	41	62	252	382	357	43
115°	73	89	202	403	460	72
125°	102	114	184	310	366	90
135°	121	133	178	250	284	94
145°	140	149	176	214	230	88
155°	158	163	176	193	198	73
165°	171	173	176	182	185	48
175°	178	178	177	179	179	17
180°	178	178	178	178	178	

TEST NUMBER: P563887

CATALOG NUMBER: SQ4-PR1-025U-075D-930-1D-UNV-STD-W-6

**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	1363.7	1363.7	1363.7	1363.7	1363.7
2.5°	1372.2	1360.2	1363.7	1360.8	1354.3
5°	1370.8	1355.8	1360.2	1355.4	1353.1
7.5°	1360.2	1345.5	1349.9	1345.1	1343.7
10°	1350.8	1337.0	1341.4	1336.6	1334.4
12.5°	1340.5	1325.8	1331.1	1325.4	1323.1
15°	1319.1	1305.3	1310.9	1306.1	1303.8
17.5°	1295.6	1280.9	1286.4	1281.0	1278.0
20°	1276.8	1263.0	1268.6	1260.3	1259.2
22.5°	1256.1	1242.3	1247.9	1236.9	1236.6
25°	1222.8	1207.8	1214.5	1201.6	1200.4
27.5°	1183.1	1169.3	1174.8	1161.7	1160.3
30°	1155.8	1142.0	1147.6	1133.4	1131.1
32.5°	1124.8	1111.9	1116.6	1102.5	1101.1
35°	1077.1	1064.5	1067.7	1053.6	1052.4
37.5°	1022.8	1011.4	1013.2	997.7	996.5
40°	984.3	972.8	973.7	957.3	956.1
42.5°	942.0	930.5	929.6	913.1	912.0
45°	871.6	860.1	856.3	841.0	838.7
47.5°	791.2	779.7	772.7	760.2	758.6
50°	733.0	721.5	715.3	704.7	701.2
52.5°	670.0	658.5	653.3	643.6	640.2
55°	570.9	561.7	557.9	548.5	546.2
57.5°	476.7	470.5	469.4	460.2	459.3
60°	419.3	415.9	415.8	407.6	407.6
62.5°	370.5	367.9	369.8	364.3	363.4
65°	306.6	304.3	307.7	305.4	305.4
67.5°	256.1	256.1	258.2	257.2	257.2
70°	227.9	227.9	229.0	229.0	229.0
72.5°	202.5	201.6	204.6	204.6	203.7
75°	165.6	165.6	165.6	166.8	166.8
77.5°	129.0	129.2	130.1	129.9	129.0
80°	104.5	105.7	105.7	104.5	104.5
82.5°	80.1	81.3	81.3	81.0	80.1
85°	42.3	44.6	47.0	47.0	47.0
87.5°	12.4	16.6	20.6	19.7	18.8
90°	1.1	3.4	9.1	4.6	4.6
92.5°	4.8	23.1	51.1	22.6	14.6
95°	11.4	44.9	149.4	77.0	52.5
97.5°	19.8	49.3	223.5	177.7	130.9
100°	26.2	53.0	246.3	249.6	193.8
102.5°	31.7	56.7	252.7	310.9	263.2
105°	41.0	62.2	252.0	382.5	356.9
107.5°	50.6	70.3	237.6	419.8	426.0
110°	57.0	74.9	225.8	429.3	456.1

TEST NUMBER: P563887

CATALOG NUMBER: SQ4-PR1-025U-075D-930-1D-UNV-STD-W-6

**CANDELA DISTRIBUTION (continued):**

	0°	22.5°	45°	67.5°	90°
112.5°	63.4	80.3	214.8	423.3	464.3
115°	73.0	88.6	201.8	402.7	459.5
117.5°	82.3	96.6	192.9	374.1	437.2
120°	87.8	101.2	189.3	354.9	416.2
122.5°	93.3	106.7	186.5	335.7	396.1
125°	101.5	113.7	183.6	310.3	366.0
127.5°	108.1	120.6	181.1	289.8	336.8
130°	111.7	125.1	180.2	276.9	320.4
132.5°	115.4	128.8	179.2	265.9	304.9
135°	120.9	133.1	177.9	250.5	283.9
137.5°	126.6	138.6	177.7	238.9	266.4
140°	131.1	142.3	176.7	229.8	255.4
142.5°	134.8	145.0	176.7	223.3	245.4
145°	140.3	149.2	175.6	213.6	230.3
147.5°	145.7	154.4	175.6	205.6	219.4
150°	149.4	157.2	175.6	200.9	212.1
152.5°	153.0	159.0	175.6	197.2	205.7
155°	158.5	163.0	175.6	192.8	198.4
157.5°	162.6	166.8	175.6	188.9	192.9
160°	165.3	168.7	175.6	187.1	189.3
162.5°	168.1	170.5	175.6	185.2	187.5
165°	171.0	173.3	175.6	182.5	184.7
167.5°	173.8	174.9	176.7	181.3	182.2
170°	175.6	176.7	176.7	181.3	181.3
172.5°	176.5	176.7	176.7	180.4	179.5
175°	177.9	177.9	176.7	179.0	179.0
177.5°	177.9	177.9	177.0	178.8	177.9
180°	177.9	177.9	177.9	177.9	177.9

(END OF REPORT)