

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: P561842

Luminaire Tested: **SQ4-PR1-050U-075D-92765-1D-UNV-STD-W-4 (2700K)**

Issue Date: 7/30/2021

**Test Information**

Test Method: LM-79-2019  
Report Number: P561842  
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-PR1-050U-075D-92765-1D-UNV-STD-W-4 (2700K)  
Description: CORELITE SQ4 SUSPENDED LED LUMINAIRE WITH PERCEIVE RIPPLE CONTINUOUS LENS  
DOWNLIGHT 750 LUMENS PER FOOT  
UPLIGHT 500 LUMENS PER FOOT  
Light Source: 2700K/65000K CCT, 90 CRI LEDS, TUNED TO 2700K CCT  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 4949.1 lumens  
Efficiency: N/A  
Efficacy: 104.0 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

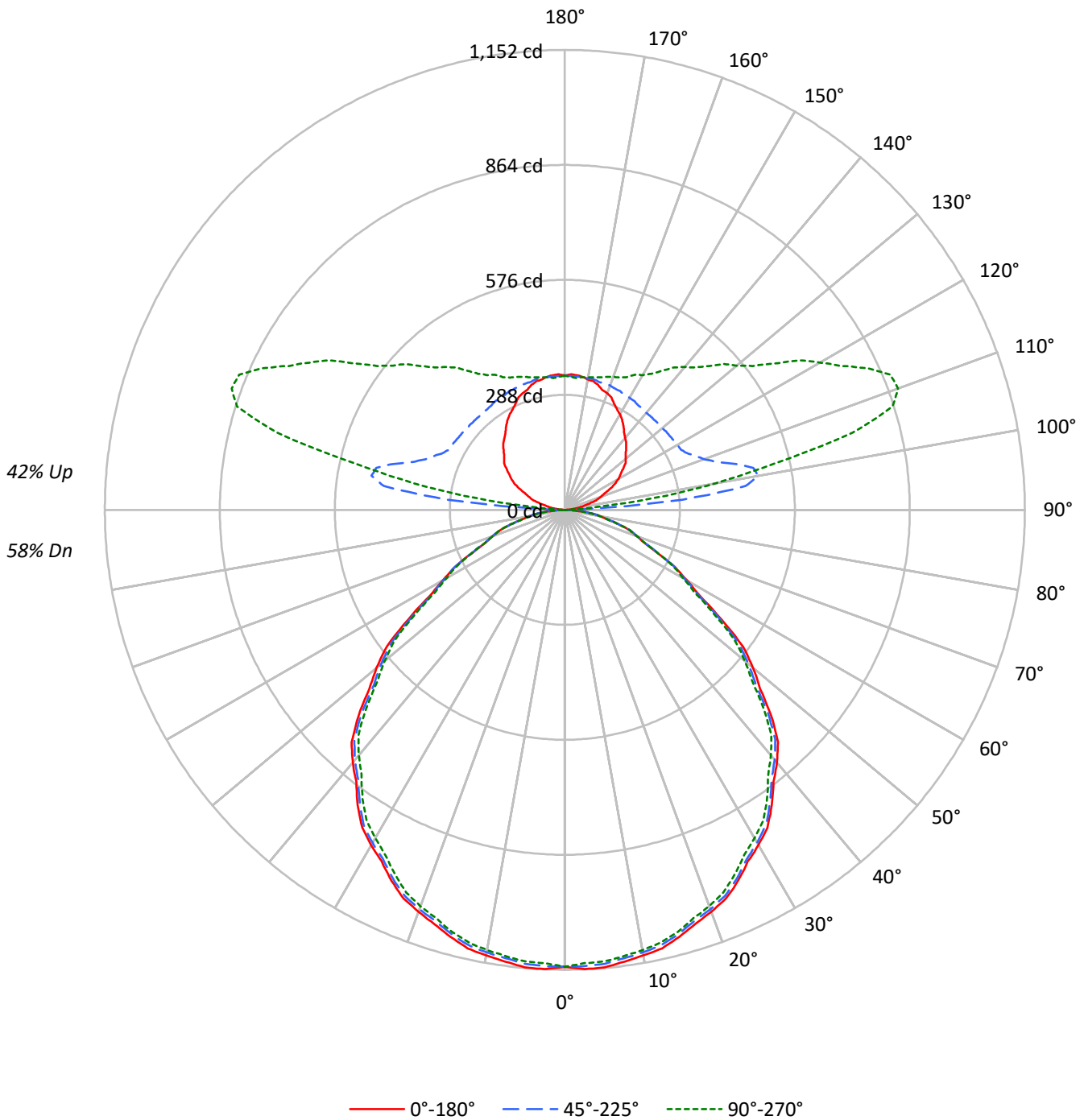
Input Watts (W): 47.6  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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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	109	109	109	109	102	102	102	102	88	88	88	75	75	75	63	63	63	58
1	100	96	92	88	93	89	86	83	77	75	73	67	65	63	56	55	54	49
2	91	84	78	73	85	78	73	69	68	64	61	59	56	53	50	48	46	42
3	83	74	67	61	78	69	63	58	60	56	52	52	49	45	45	42	40	36
4	76	66	58	52	71	62	55	49	54	48	44	47	43	39	40	37	34	31
5	70	59	51	45	65	55	48	43	48	43	38	42	38	34	36	33	30	27
6	65	53	45	39	60	50	42	37	44	38	34	38	34	30	33	29	27	24
7	60	48	40	34	56	45	38	33	40	34	30	35	30	27	30	26	24	21
8	56	43	36	30	52	41	34	29	36	31	26	32	27	24	28	24	21	19
9	52	40	32	27	48	38	31	26	33	28	24	29	25	21	26	22	19	17
10	49	36	29	24	45	34	28	23	31	25	21	27	23	19	24	20	18	16

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

	0°	45°	90°
0°	10558	10558	10558
5°	10653	10571	10516
10°	10619	10546	10490
15°	10573	10507	10450
20°	10519	10452	10375
25°	10446	10375	10255
30°	10333	10259	10112
35°	10181	10092	9948
40°	9948	9841	9664
45°	9543	9376	9183
50°	8829	8616	8447
55°	7705	7531	7372
60°	6493	6438	6311
65°	5617	5639	5595
70°	5158	5185	5185
75°	4955	4955	4991
80°	4660	4713	4660
85°	3758	4171	4171



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	108.2	2.2
10°-20°	309.6	6.3
20°-30°	467.0	9.4
30°-40°	556.4	11.2
40°-50°	548.6	11.1
50°-60°	419.3	8.5
60°-70°	259.5	5.2
70°-80°	147.4	3.0
80°-90°	44.8	0.9
90°-100°	153.2	3.1
100°-110°	435.9	8.8
110°-120°	417.6	8.4
120°-130°	330.5	6.7
130°-140°	265.3	5.4
140°-150°	207.7	4.2
150°-160°	152.0	3.1
160°-170°	94.1	1.9
170°-180°	31.9	0.6
0°-30°	884.9	17.9
0°-40°	1441.3	29.1
0°-60°	2409.2	48.7
0°-90°	2860.8	57.8
90°-120°	1006.7	20.3
90°-150°	1810.2	36.6
90°-180°	2088.0	42.2
0°-180°	4949.1	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	1144	1144	1144	1144	1144	
5°	1150	1138	1141	1137	1136	109
15°	1107	1095	1100	1096	1094	312
25°	1026	1014	1019	1008	1007	472
35°	904	893	896	884	883	564
45°	731	722	719	706	704	560
55°	479	471	468	460	458	429
65°	257	255	258	256	256	261
75°	139	139	139	140	140	147
85°	36	37	39	39	39	41
90°	0	0	0	0	0	2
95°	17	66	297	103	63	19
105°	68	103	444	785	746	72
115°	126	152	337	714	838	124
125°	178	197	322	534	638	159
135°	217	235	318	451	509	168
145°	256	269	320	390	425	160
155°	293	300	328	352	367	135
165°	323	325	332	339	344	91
175°	339	337	336	334	331	32
180°	336	336	336	336	336	

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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	1144.4	1144.4	1144.4	1144.4	1144.4
2.5°	1151.5	1141.5	1144.4	1141.9	1136.5
5°	1150.3	1137.8	1141.4	1137.4	1135.5
7.5°	1141.4	1129.1	1132.8	1128.8	1127.6
10°	1133.5	1122.0	1125.7	1121.7	1119.7
12.5°	1124.9	1112.5	1117.0	1112.2	1110.3
15°	1106.9	1095.4	1100.0	1096.0	1094.1
17.5°	1087.2	1074.9	1079.5	1074.9	1072.4
20°	1071.4	1059.9	1064.5	1057.6	1056.7
22.5°	1054.1	1042.5	1047.2	1037.9	1037.7
25°	1026.1	1013.6	1019.2	1008.3	1007.4
27.5°	992.8	981.2	985.9	974.8	973.7
30°	969.9	958.4	963.0	951.1	949.2
32.5°	943.9	933.1	937.0	925.1	924.0
35°	903.9	893.3	896.0	884.1	883.2
37.5°	858.3	848.7	850.3	837.2	836.3
40°	826.0	816.4	817.1	803.3	802.4
42.5°	790.5	780.9	780.1	766.3	765.3
45°	731.4	721.7	718.6	705.7	703.8
47.5°	664.0	654.3	648.4	637.9	636.6
50°	615.1	605.4	600.3	591.3	588.5
52.5°	562.2	552.6	548.2	540.1	537.2
55°	479.0	471.3	468.2	460.3	458.3
57.5°	400.0	394.8	393.9	386.2	385.4
60°	351.9	349.0	348.9	342.0	342.0
62.5°	310.9	308.8	310.3	305.7	305.0
65°	257.3	255.3	258.3	256.3	256.3
67.5°	214.9	214.9	216.7	215.9	215.9
70°	191.2	191.2	192.2	192.2	192.2
72.5°	169.9	169.2	171.7	171.7	170.9
75°	139.0	139.0	139.0	140.0	140.0
77.5°	108.2	108.4	109.2	109.0	108.2
80°	87.7	88.7	88.7	87.7	87.7
82.5°	67.2	68.2	68.2	68.0	67.2
85°	35.5	37.4	39.4	39.4	39.4
87.5°	10.3	13.3	15.8	15.8	15.0
90°	0.0	0.0	0.0	0.0	0.0
92.5°	5.1	27.1	62.9	18.3	13.8
95°	16.6	66.0	296.6	102.6	63.3
97.5°	30.6	77.3	456.7	326.8	224.0
100°	40.3	84.0	491.5	497.8	383.5
102.5°	51.0	91.2	483.8	637.3	537.4
105°	67.7	102.7	444.2	784.6	745.9
107.5°	84.8	116.1	397.9	826.2	860.7
110°	96.5	125.9	371.3	810.3	887.8

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**CANDELA DISTRIBUTION (continued):**

	0°	22.5°	45°	67.5°	90°
112.5°	107.8	135.6	353.4	772.7	883.2
115°	125.9	152.2	336.8	713.6	837.9
117.5°	141.9	166.5	327.0	648.9	780.6
120°	154.7	175.3	326.0	612.0	738.2
122.5°	164.9	185.5	323.4	579.6	696.8
125°	177.7	197.1	321.5	533.5	637.9
127.5°	191.6	209.7	320.5	506.0	592.0
130°	198.8	216.9	318.9	486.8	561.8
132.5°	206.4	224.1	318.9	471.8	540.8
135°	217.3	235.4	317.7	450.7	509.4
137.5°	227.5	245.2	317.5	432.7	483.4
140°	235.2	253.3	317.0	417.8	466.6
142.5°	243.9	259.0	318.5	406.0	449.7
145°	256.3	269.4	320.2	390.0	425.0
147.5°	266.9	279.7	323.0	373.9	404.2
150°	276.1	284.9	324.0	368.6	389.9
152.5°	283.3	292.5	325.1	361.4	381.2
155°	292.7	299.6	327.9	352.5	366.9
157.5°	304.5	308.6	328.5	348.4	358.7
160°	310.6	313.7	331.1	345.3	354.1
162.5°	314.2	317.8	331.6	342.7	349.5
165°	323.4	324.7	331.7	338.9	343.9
167.5°	329.7	328.5	334.7	337.9	339.9
170°	331.7	331.1	333.6	334.3	336.8
172.5°	336.3	334.2	335.2	333.3	335.3
175°	338.7	336.9	335.5	333.6	331.1
177.5°	339.8	336.8	335.2	333.1	333.6
180°	336.2	336.2	336.2	336.2	336.2

(END OF REPORT)