

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: P561843

Luminaire Tested: **SQ4-PR1-050U-075D-92765-1D-UNV-STD-W-4 (3000K)**

Issue Date: 7/30/2021

**Test Information**

Test Method: LM-79-2019  
Report Number: P561843  
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 (3000K)  
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 3000K CCT  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

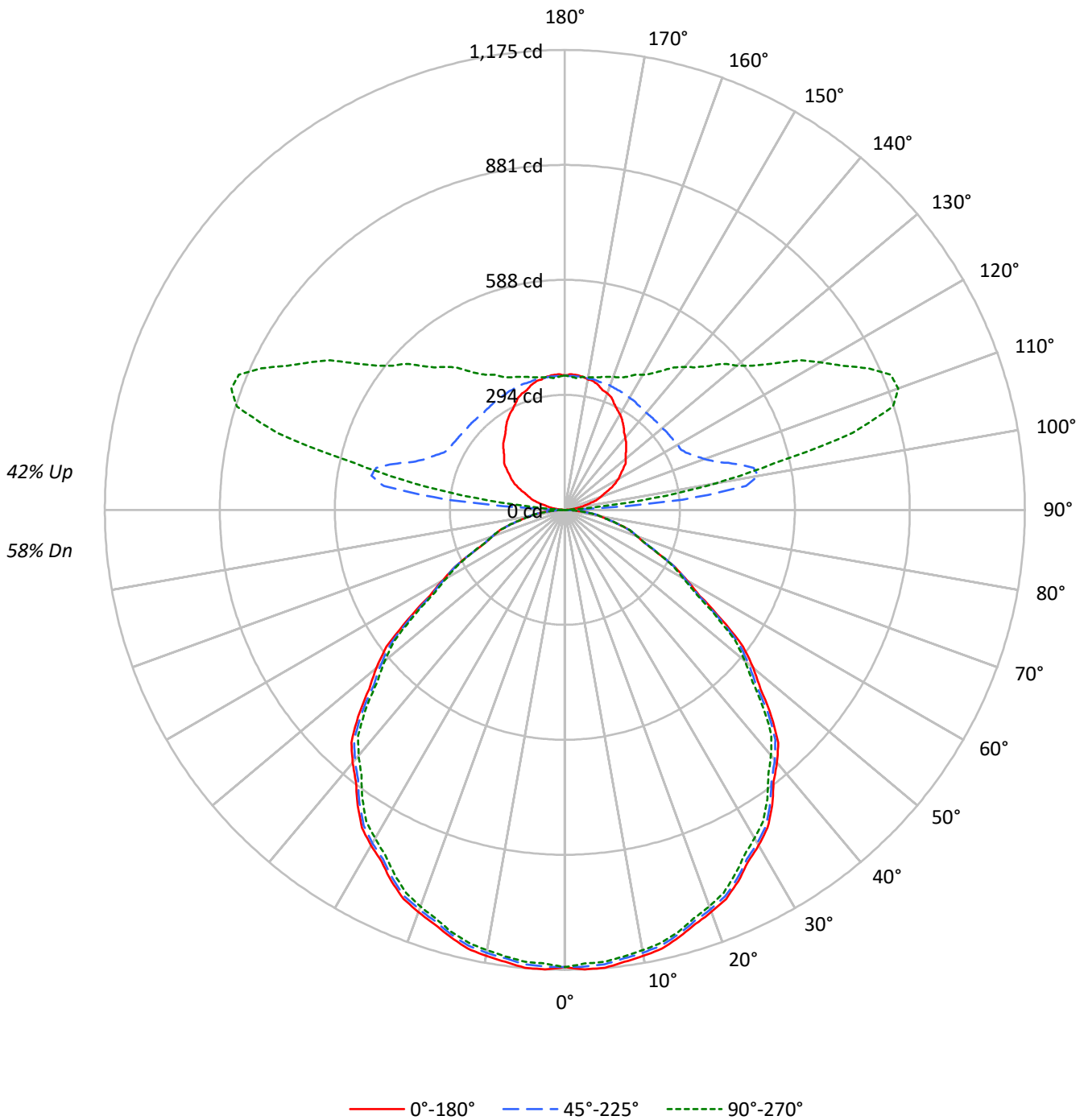
Lumens per Lamp: N/A  
Luminaire Lumens: 5051.7 lumens  
Efficiency: N/A  
Efficacy: 105.9 lumens/watt  
Spacing Criteria (0/90/45): 1.26 / 1.24 / 1.35  
Luminous Opening: Rectangular (W 0.29' x L: 4' x H: 0')  
CIE Type: General Diffuse

Input Watts (W): 47.7  
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	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°	10777	10777	10777
5°	10874	10791	10734
10°	10839	10764	10707
15°	10792	10725	10667
20°	10738	10669	10590
25°	10663	10590	10468
30°	10547	10472	10322
35°	10391	10301	10154
40°	10154	10046	9864
45°	9740	9571	9374
50°	9011	8794	8622
55°	7866	7687	7525
60°	6628	6573	6442
65°	5733	5755	5711
70°	5266	5293	5293
75°	5058	5058	5094
80°	4755	4814	4755
85°	3832	4256	4256



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	110.5	2.2
10°-20°	316.0	6.3
20°-30°	476.7	9.4
30°-40°	568.0	11.2
40°-50°	560.0	11.1
50°-60°	428.0	8.5
60°-70°	264.8	5.2
70°-80°	150.4	3.0
80°-90°	45.7	0.9
90°-100°	156.4	3.1
100°-110°	444.9	8.8
110°-120°	426.3	8.4
120°-130°	337.4	6.7
130°-140°	270.8	5.4
140°-150°	212.0	4.2
150°-160°	155.1	3.1
160°-170°	96.1	1.9
170°-180°	32.6	0.6
0°-30°	903.2	17.9
0°-40°	1471.2	29.1
0°-60°	2459.1	48.7
0°-90°	2920.1	57.8
90°-120°	1027.6	20.3
90°-150°	1847.8	36.6
90°-180°	2132.0	42.2
0°-180°	5051.7	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	1168	1168	1168	1168	1168	
5°	1174	1161	1165	1161	1159	111
15°	1130	1118	1123	1119	1117	319
25°	1047	1035	1040	1029	1028	482
35°	923	912	915	902	902	576
45°	746	737	734	720	718	572
55°	489	481	478	470	468	438
65°	263	261	264	262	262	266
75°	142	142	142	143	143	150
85°	36	38	40	40	40	42
90°	0	0	0	0	0	2
95°	17	67	303	105	65	19
105°	69	105	453	801	761	73
115°	128	155	344	728	855	127
125°	181	201	328	545	651	162
135°	222	240	324	460	520	171
145°	262	275	327	398	434	163
155°	299	306	335	360	374	138
165°	330	331	339	346	351	93
175°	346	344	342	340	338	33
180°	343	343	343	343	343	

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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	<i>1168.1</i>	1168.1	1168.1	1168.1	1168.1
2.5°	<i>1175.3</i>	<i>1165.1</i>	<i>1168.1</i>	<i>1165.6</i>	<i>1160.1</i>
5°	<i>1174.1</i>	1161.4	1165.1	1161.0	1159.0
7.5°	<i>1165.1</i>	1152.5	1156.2	1152.2	1151.0
10°	<i>1157.0</i>	1145.2	1149.0	1144.9	1142.9
12.5°	<i>1148.2</i>	1135.6	1140.1	1135.3	1133.3
15°	<i>1129.9</i>	1118.1	1122.8	1118.8	1116.8
17.5°	<i>1109.7</i>	1097.2	1101.9	1097.2	1094.7
20°	<i>1093.7</i>	1081.8	1086.6	1079.5	1078.6
22.5°	<i>1075.9</i>	1064.1	1068.9	1059.4	1059.2
25°	<i>1047.4</i>	1034.6	1040.3	1029.2	1028.3
27.5°	<i>1013.4</i>	1001.6	1006.3	995.0	993.8
30°	<i>990.0</i>	978.2	983.0	970.9	968.9
32.5°	<i>963.5</i>	952.4	956.4	944.3	943.1
35°	<i>922.6</i>	911.8	914.6	902.5	901.5
37.5°	<i>876.1</i>	866.3	867.9	854.6	853.6
40°	<i>843.1</i>	833.3	834.1	820.0	819.0
42.5°	<i>806.9</i>	797.1	796.2	782.1	781.1
45°	<i>746.5</i>	736.7	733.5	720.3	718.4
47.5°	<i>677.7</i>	667.9	661.8	651.1	649.8
50°	<i>627.8</i>	618.0	612.7	603.6	600.7
52.5°	<i>573.9</i>	564.1	559.6	551.3	548.3
55°	<i>489.0</i>	481.1	477.9	469.8	467.8
57.5°	<i>408.3</i>	403.0	402.0	394.2	393.4
60°	<i>359.2</i>	356.2	356.2	349.1	349.1
62.5°	<i>317.3</i>	315.2	316.7	312.1	311.3
65°	<i>262.6</i>	260.6	263.6	261.6	261.6
67.5°	<i>219.3</i>	219.3	221.1	220.3	220.3
70°	<i>195.2</i>	195.2	196.2	196.2	196.2
72.5°	<i>173.5</i>	172.7	175.3	175.2	174.5
75°	<i>141.9</i>	141.9	141.9	142.9	142.9
77.5°	<i>110.5</i>	110.7	111.5	111.3	110.5
80°	<i>89.5</i>	90.5	90.6	89.5	89.5
82.5°	<i>68.6</i>	69.6	69.6	69.4	68.6
85°	<i>36.2</i>	38.2	40.2	40.2	40.2
87.5°	<i>10.5</i>	13.6	16.1	16.1	15.3
90°	<i>0.0</i>	0.0	0.0	0.0	0.0
92.5°	<i>5.2</i>	27.7	64.2	18.7	14.1
95°	<i>17.0</i>	67.4	302.7	104.8	64.6
97.5°	<i>31.2</i>	78.9	466.2	333.6	228.6
100°	<i>41.1</i>	85.8	501.7	508.2	391.4
102.5°	<i>52.1</i>	93.1	493.9	650.5	548.5
105°	<i>69.2</i>	104.9	453.4	800.9	761.3
107.5°	<i>86.5</i>	118.5	406.2	843.3	878.5
110°	<i>98.5</i>	128.5	379.0	827.1	906.2

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**CANDELA DISTRIBUTION (continued):**

	0°	22.5°	45°	67.5°	90°
112.5°	<i>110.0</i>	138.4	360.8	788.7	901.5
115°	<i>128.5</i>	155.3	343.8	728.3	855.3
117.5°	<i>144.8</i>	170.0	333.8	662.4	796.8
120°	<i>157.9</i>	178.9	332.7	624.7	753.5
122.5°	<i>168.3</i>	189.4	330.1	591.6	711.2
125°	<i>181.4</i>	201.1	328.2	544.6	651.1
127.5°	<i>195.6</i>	214.1	327.1	516.5	604.2
130°	<i>202.9</i>	221.4	325.5	496.9	573.4
132.5°	<i>210.7</i>	228.7	325.5	481.6	552.1
135°	<i>221.8</i>	240.3	324.2	460.0	520.0
137.5°	<i>232.3</i>	250.2	324.1	441.7	493.5
140°	<i>240.1</i>	258.6	323.6	426.5	476.2
142.5°	<i>249.0</i>	264.4	325.2	414.4	459.0
145°	<i>261.6</i>	275.0	326.8	398.1	433.8
147.5°	<i>272.4</i>	285.5	329.7	381.7	412.6
150°	<i>281.8</i>	290.8	330.8	376.3	398.0
152.5°	<i>289.1</i>	298.6	331.8	368.9	389.1
155°	<i>298.8</i>	305.8	334.7	359.8	374.5
157.5°	<i>310.8</i>	315.0	335.3	355.7	366.1
160°	<i>317.1</i>	320.3	337.9	352.5	361.4
162.5°	<i>320.7</i>	324.4	338.5	349.8	356.7
165°	<i>330.1</i>	331.4	338.6	345.9	351.0
167.5°	<i>336.5</i>	335.4	341.6	344.9	346.9
170°	<i>338.6</i>	338.0	340.5	341.3	343.8
172.5°	<i>343.3</i>	341.1	342.1	340.2	342.2
175°	<i>345.8</i>	343.9	342.5	340.5	337.9
177.5°	<i>346.8</i>	343.7	342.1	340.0	340.5
180°	<i>343.2</i>	343.2	343.2	343.2	343.2

(END OF REPORT)