

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: P561848

Luminaire Tested: **SQ4-PR1-050U-075D-92765-1D-UNV-STD-W-4 (5700K)**

Issue Date: 7/30/2021

**Test Information**

Test Method: LM-79-2019  
Report Number: P561848  
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 (5700K)  
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 5700K CCT  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

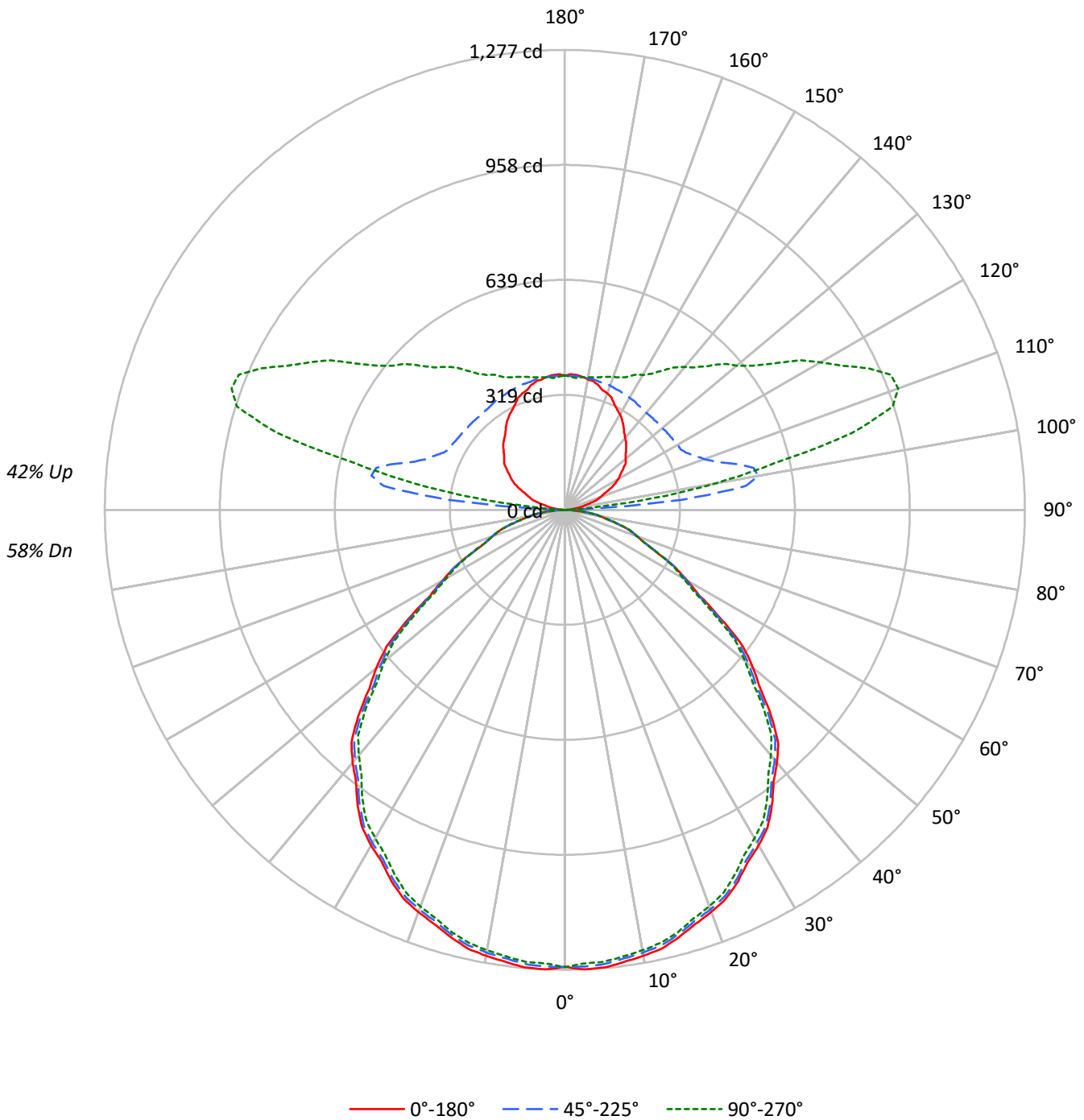
Lumens per Lamp: N/A  
Luminaire Lumens: 5488.8 lumens  
Efficiency: N/A  
Efficacy: 115.3 lumens/watt  
Spacing Criteria (0/90/45): 1.26 / 1.24 / 1.35  
Luminous Opening: Rectangular (W 0.29' x L: 4' x H: 0')  
CIE Type: General Diffuse

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



TEST NUMBER: P561848  
CATALOG NUMBER: SQ4-PR1-050U-075D-92765-1D-UNV-STD-W-4 (5700K)

### Luminous Intensity Polar Plot





TEST NUMBER: P561848

CATALOG NUMBER: SQ4-PR1-050U-075D-92765-1D-UNV-STD-W-4 (5700K)

**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°	11710	11710	11710
5°	11815	11724	11663
10°	11778	11696	11635
15°	11726	11653	11590
20°	11667	11592	11506
25°	11585	11506	11373
30°	11460	11378	11215
35°	11290	11192	11032
40°	11033	10914	10717
45°	10583	10398	10184
50°	9790	9555	9367
55°	8546	8353	8176
60°	7202	7141	6999
65°	6228	6252	6204
70°	5722	5751	5751
75°	5493	5493	5532
80°	5170	5228	5170
85°	4171	4626	4626



TEST NUMBER: P561848

CATALOG NUMBER: SQ4-PR1-050U-075D-92765-1D-UNV-STD-W-4 (5700K)

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	120.0	2.2
10°-20°	343.4	6.3
20°-30°	517.9	9.4
30°-40°	617.1	11.2
40°-50°	608.4	11.1
50°-60°	465.0	8.5
60°-70°	287.8	5.2
70°-80°	163.4	3.0
80°-90°	49.7	0.9
90°-100°	169.9	3.1
100°-110°	483.4	8.8
110°-120°	463.2	8.4
120°-130°	366.6	6.7
130°-140°	294.2	5.4
140°-150°	230.4	4.2
150°-160°	168.5	3.1
160°-170°	104.4	1.9
170°-180°	35.4	0.6
0°-30°	981.4	17.9
0°-40°	1598.5	29.1
0°-60°	2671.9	48.7
0°-90°	3172.8	57.8
90°-120°	1116.5	20.3
90°-150°	2007.7	36.6
90°-180°	2316.0	42.2
0°-180°	5488.8	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	1269	1269	1269	1269	1269	
5°	1276	1262	1266	1262	1259	121
15°	1228	1215	1220	1216	1213	346
25°	1138	1124	1130	1118	1117	524
35°	1002	991	994	981	980	626
45°	811	800	797	783	780	621
55°	531	523	519	510	508	476
65°	285	283	286	284	284	289
75°	154	154	154	155	155	163
85°	39	42	44	44	44	46
90°	0	0	0	0	0	2
95°	18	73	329	114	70	21
105°	75	114	493	870	827	79
115°	140	169	374	791	929	137
125°	197	218	356	592	707	176
135°	241	261	352	500	565	186
145°	284	299	355	433	471	178
155°	325	332	364	391	407	150
165°	359	360	368	376	381	101
175°	376	374	372	370	367	36
180°	373	373	373	373	373	

TEST NUMBER: P561848

CATALOG NUMBER: SQ4-PR1-050U-075D-92765-1D-UNV-STD-W-4 (5700K)

**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	1269.2	1269.2	1269.2	1269.2	1269.2
2.5°	1277.1	1265.9	1269.2	1266.4	1260.4
5°	1275.7	1261.8	1265.9	1261.5	1259.3
7.5°	1265.9	1252.2	1256.3	1251.9	1250.6
10°	1257.2	1244.3	1248.4	1244.0	1241.9
12.5°	1247.5	1233.9	1238.8	1233.5	1231.4
15°	1227.6	1214.8	1220.0	1215.6	1213.4
17.5°	1205.8	1192.1	1197.3	1192.2	1189.4
20°	1188.3	1175.5	1180.6	1173.0	1171.9
22.5°	1169.0	1156.2	1161.4	1151.1	1150.9
25°	1138.0	1124.1	1130.3	1118.3	1117.2
27.5°	1101.1	1088.2	1093.4	1081.1	1079.8
30°	1075.7	1062.9	1068.0	1054.9	1052.7
32.5°	1046.8	1034.9	1039.2	1026.0	1024.7
35°	1002.4	990.7	993.7	980.6	979.5
37.5°	951.9	941.3	943.0	928.5	927.5
40°	916.1	905.4	906.2	890.9	889.8
42.5°	876.7	866.0	865.1	849.8	848.7
45°	811.1	800.5	796.9	782.7	780.5
47.5°	736.4	725.7	719.1	707.5	706.0
50°	682.1	671.5	665.7	655.8	652.6
52.5°	623.5	612.9	608.0	599.0	595.8
55°	531.3	522.7	519.3	510.5	508.3
57.5°	443.6	437.8	436.8	428.3	427.4
60°	390.3	387.1	387.0	379.3	379.3
62.5°	344.8	342.4	344.1	339.1	338.2
65°	285.3	283.2	286.4	284.2	284.2
67.5°	238.3	238.3	240.3	239.4	239.4
70°	212.1	212.1	213.2	213.2	213.2
72.5°	188.5	187.6	190.4	190.4	189.6
75°	154.1	154.1	154.1	155.2	155.2
77.5°	120.0	120.2	121.1	120.9	120.0
80°	97.3	98.4	98.4	97.3	97.3
82.5°	74.6	75.6	75.6	75.4	74.6
85°	39.4	41.5	43.7	43.7	43.7
87.5°	11.4	14.8	17.5	17.5	16.6
90°	0.0	0.0	0.0	0.0	0.0
92.5°	5.7	30.1	69.8	20.3	15.3
95°	18.4	73.2	328.9	113.8	70.2
97.5°	33.9	85.7	506.5	362.5	248.4
100°	44.7	93.2	545.1	552.1	425.3
102.5°	56.6	101.2	536.6	706.7	596.0
105°	75.1	114.0	492.6	870.2	827.2
107.5°	94.0	128.8	441.3	916.3	954.5
110°	107.0	139.6	411.8	898.6	984.6

TEST NUMBER: P561848

CATALOG NUMBER: SQ4-PR1-050U-075D-92765-1D-UNV-STD-W-4 (5700K)

**CANDELA DISTRIBUTION (continued):**

	0°	22.5°	45°	67.5°	90°
112.5°	119.5	150.4	392.0	856.9	979.5
115°	139.6	168.8	373.6	791.4	929.3
117.5°	157.4	184.7	362.6	719.7	865.8
120°	171.5	194.4	361.5	678.7	818.7
122.5°	182.9	205.8	358.7	642.8	772.8
125°	197.1	218.5	356.5	591.7	707.4
127.5°	212.5	232.6	355.4	561.2	656.5
130°	220.4	240.5	353.7	539.9	623.1
132.5°	229.0	248.5	353.7	523.3	599.8
135°	241.0	261.1	352.3	499.8	564.9
137.5°	252.3	271.9	352.2	479.9	536.2
140°	260.9	281.0	351.6	463.4	517.5
142.5°	270.5	287.3	353.3	450.2	498.7
145°	284.2	298.8	355.1	432.6	471.4
147.5°	296.0	310.2	358.2	414.7	448.3
150°	306.2	315.9	359.4	408.8	432.4
152.5°	314.2	324.4	360.5	400.9	422.8
155°	324.6	332.3	363.6	390.9	406.9
157.5°	337.7	342.3	364.3	386.4	397.8
160°	344.5	348.0	367.2	383.0	392.7
162.5°	348.5	352.5	367.7	380.1	387.6
165°	358.7	360.1	367.9	375.8	381.4
167.5°	365.6	364.4	371.1	374.7	377.0
170°	367.9	367.2	370.0	370.8	373.6
172.5°	373.0	370.6	371.7	369.6	371.9
175°	375.7	373.6	372.1	370.0	367.2
177.5°	376.8	373.5	371.7	369.5	370.0
180°	372.9	372.9	372.9	372.9	372.9

(END OF REPORT)