

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: P561847

Luminaire Tested: **SQ4-PR1-050U-075D-92765-1D-UNV-STD-W-4 (5000K)**

Issue Date: 7/30/2021

Test Information

Test Method: LM-79-2019
Report Number: P561847
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 (5000K)
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 5000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

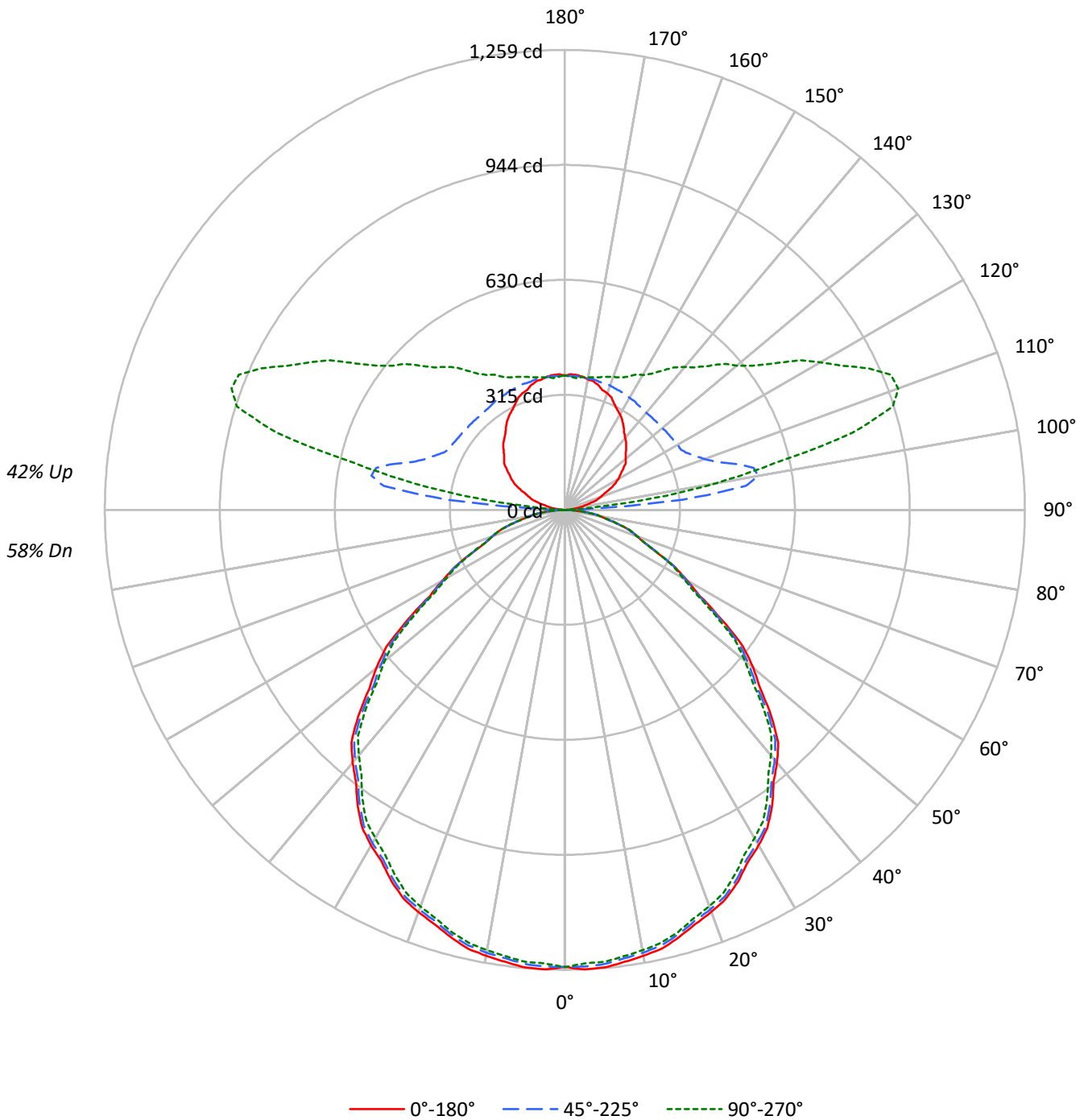
Lumens per Lamp: N/A
Luminaire Lumens: 5411.8 lumens
Efficiency: N/A
Efficacy: 113.7 lumens/watt
Spacing Criteria (0/90/45): 1.26 / 1.24 / 1.35
Luminous Opening: Rectangular (W 0.29' x L: 4' x H: 0')
CIE Type: General Diffuse

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: P561847
CATALOG NUMBER: SQ4-PR1-050U-075D-92765-1D-UNV-STD-W-4 (5000K)

Luminous Intensity Polar Plot





TEST NUMBER: P561847

CATALOG NUMBER: SQ4-PR1-050U-075D-92765-1D-UNV-STD-W-4 (5000K)

COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

RF	20					20					20					20				
RC	80					70					50					30				
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°	11546	11546	11546
5°	11649	11559	11500
10°	11612	11532	11471
15°	11561	11490	11428
20°	11503	11430	11344
25°	11422	11346	11213
30°	11299	11218	11057
35°	11132	11034	10877
40°	10878	10761	10567
45°	10434	10252	10042
50°	9654	9422	9236
55°	8426	8236	8062
60°	7100	7041	6901
65°	6141	6165	6117
70°	5641	5670	5670
75°	5418	5418	5458
80°	5095	5154	5095
85°	4107	4563	4563



TEST NUMBER: P561847

CATALOG NUMBER: SQ4-PR1-050U-075D-92765-1D-UNV-STD-W-4 (5000K)

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	118.3	2.2
10°-20°	338.6	6.3
20°-30°	510.7	9.4
30°-40°	608.5	11.2
40°-50°	599.9	11.1
50°-60°	458.5	8.5
60°-70°	283.7	5.2
70°-80°	161.2	3.0
80°-90°	49.0	0.9
90°-100°	167.5	3.1
100°-110°	476.6	8.8
110°-120°	456.7	8.4
120°-130°	361.4	6.7
130°-140°	290.1	5.4
140°-150°	227.1	4.2
150°-160°	166.2	3.1
160°-170°	102.9	1.9
170°-180°	34.9	0.6
0°-30°	967.6	17.9
0°-40°	1576.0	29.1
0°-60°	2634.4	48.7
0°-90°	3128.3	57.8
90°-120°	1100.8	20.3
90°-150°	1979.5	36.6
90°-180°	2283.0	42.2
0°-180°	5411.8	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1251	1251	1251	1251	1251	
5°	1258	1244	1248	1244	1242	119
15°	1210	1198	1203	1198	1196	342
25°	1122	1108	1114	1103	1102	516
35°	988	977	980	967	966	617
45°	800	789	786	772	770	613
55°	524	515	512	503	501	469
65°	281	279	282	280	280	285
75°	152	152	152	153	153	160
85°	39	41	43	43	43	45
90°	0	0	0	0	0	2
95°	18	72	324	112	69	21
105°	74	112	486	858	816	78
115°	138	166	368	780	916	136
125°	194	216	352	583	698	174
135°	238	257	347	493	557	183
145°	280	295	350	426	465	175
155°	320	328	358	385	401	148
165°	354	355	363	370	376	99
175°	370	368	367	365	362	35
180°	368	368	368	368	368	

TEST NUMBER: P561847

CATALOG NUMBER: SQ4-PR1-050U-075D-92765-1D-UNV-STD-W-4 (5000K)

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1251.4	1251.4	1251.4	1251.4	1251.4
2.5°	1259.1	1248.2	1251.4	1248.6	1242.7
5°	1257.8	1244.1	1248.1	1243.8	1241.7
7.5°	1248.1	1234.6	1238.6	1234.3	1233.0
10°	1239.5	1226.9	1230.9	1226.5	1224.4
12.5°	1230.0	1216.5	1221.4	1216.2	1214.1
15°	1210.4	1197.8	1202.9	1198.5	1196.4
17.5°	1188.8	1175.4	1180.4	1175.4	1172.7
20°	1171.6	1159.0	1164.1	1156.5	1155.4
22.5°	1152.6	1140.0	1145.1	1134.9	1134.7
25°	1122.0	1108.3	1114.5	1102.6	1101.5
27.5°	1085.6	1072.9	1078.0	1065.9	1064.7
30°	1060.6	1047.9	1053.0	1040.1	1037.9
32.5°	1032.1	1020.3	1024.6	1011.6	1010.4
35°	988.4	976.8	979.7	966.8	965.7
37.5°	938.6	928.0	929.7	915.5	914.4
40°	903.2	892.7	893.5	878.4	877.4
42.5°	864.4	853.9	853.0	837.9	836.8
45°	799.7	789.2	785.7	771.7	769.6
47.5°	726.0	715.5	709.0	697.5	696.1
50°	672.6	662.0	656.4	646.6	643.5
52.5°	614.8	604.3	599.5	590.6	587.4
55°	523.8	515.4	512.0	503.3	501.2
57.5°	437.4	431.7	430.7	422.3	421.4
60°	384.8	381.6	381.6	374.0	374.0
62.5°	339.9	337.6	339.3	334.3	333.5
65°	281.3	279.2	282.4	280.2	280.2
67.5°	235.0	235.0	236.9	236.0	236.0
70°	209.1	209.1	210.2	210.2	210.2
72.5°	185.8	185.0	187.8	187.7	186.9
75°	152.0	152.0	152.0	153.1	153.1
77.5°	118.3	118.6	119.4	119.2	118.3
80°	95.9	97.0	97.0	95.9	95.9
82.5°	73.5	74.6	74.6	74.4	73.5
85°	38.8	40.9	43.1	43.1	43.1
87.5°	11.2	14.6	17.2	17.2	16.4
90°	0.0	0.0	0.0	0.0	0.0
92.5°	5.6	29.6	68.8	20.0	15.1
95°	18.2	72.2	324.3	112.2	69.2
97.5°	33.4	84.5	499.4	357.4	244.9
100°	44.0	91.9	537.4	544.4	419.3
102.5°	55.8	99.8	529.1	696.8	587.6
105°	74.1	112.3	485.7	858.0	815.6
107.5°	92.7	127.0	435.1	903.4	941.1
110°	105.5	137.6	406.1	886.0	970.8

TEST NUMBER: P561847

CATALOG NUMBER: SQ4-PR1-050U-075D-92765-1D-UNV-STD-W-4 (5000K)

CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	117.8	148.3	386.5	844.9	965.7
115°	137.7	166.4	368.3	780.3	916.2
117.5°	155.2	182.1	357.6	709.6	853.6
120°	169.1	191.7	356.4	669.2	807.2
122.5°	180.3	202.9	353.6	633.7	761.9
125°	194.3	215.5	351.5	583.4	697.5
127.5°	209.5	229.3	350.4	553.3	647.3
130°	217.4	237.2	348.7	532.3	614.3
132.5°	225.7	245.0	348.7	516.0	591.4
135°	237.6	257.4	347.3	492.8	557.0
137.5°	248.8	268.1	347.2	473.1	528.6
140°	257.2	277.0	346.6	456.9	510.2
142.5°	266.7	283.2	348.3	443.9	491.7
145°	280.3	294.6	350.1	426.5	464.8
147.5°	291.9	305.8	353.2	408.9	442.0
150°	301.9	311.5	354.3	403.1	426.3
152.5°	309.7	319.9	355.5	395.2	416.8
155°	320.1	327.6	358.5	385.4	401.2
157.5°	332.9	337.5	359.2	381.0	392.2
160°	339.7	343.1	362.0	377.6	387.2
162.5°	343.6	347.5	362.6	374.8	382.2
165°	353.6	355.0	362.7	370.5	376.0
167.5°	360.5	359.3	365.9	369.5	371.7
170°	362.7	362.0	364.8	365.6	368.3
172.5°	367.8	365.4	366.5	364.4	366.6
175°	370.4	368.4	366.9	364.8	362.0
177.5°	371.5	368.2	366.5	364.3	364.8
180°	367.6	367.6	367.6	367.6	367.6

(END OF REPORT)