

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: P562207

Luminaire Tested: **SQ4-PW1-050U-075D-92765-1D-UNV-STD-W-4 (3000K)**

Issue Date: 7/30/2021

Test Information

Test Method: LM-79-2019
Report Number: P562207
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2101-105-51, G2-2106-289-3)
Test Lab: INNOVATION CENTER
Issue Date: 7/30/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: CORELITE
Catalog Number: SQ4-PW1-050U-075D-92765-1D-UNV-STD-W-4 (3000K)
Description: CORELITE SQ4 SUSPENDED LED LUMINAIRE WITH PERCEIVE WAVES 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: 5037.0 lumens
Efficiency: N/A
Efficacy: 105.6 lumens/watt
Spacing Criteria (0/90/45): 1.22 / 1.19 / 1.31
Luminous Opening: Rectangular (W 0.29' x L: 4' x H: 0')
CIE Type: General Diffuse

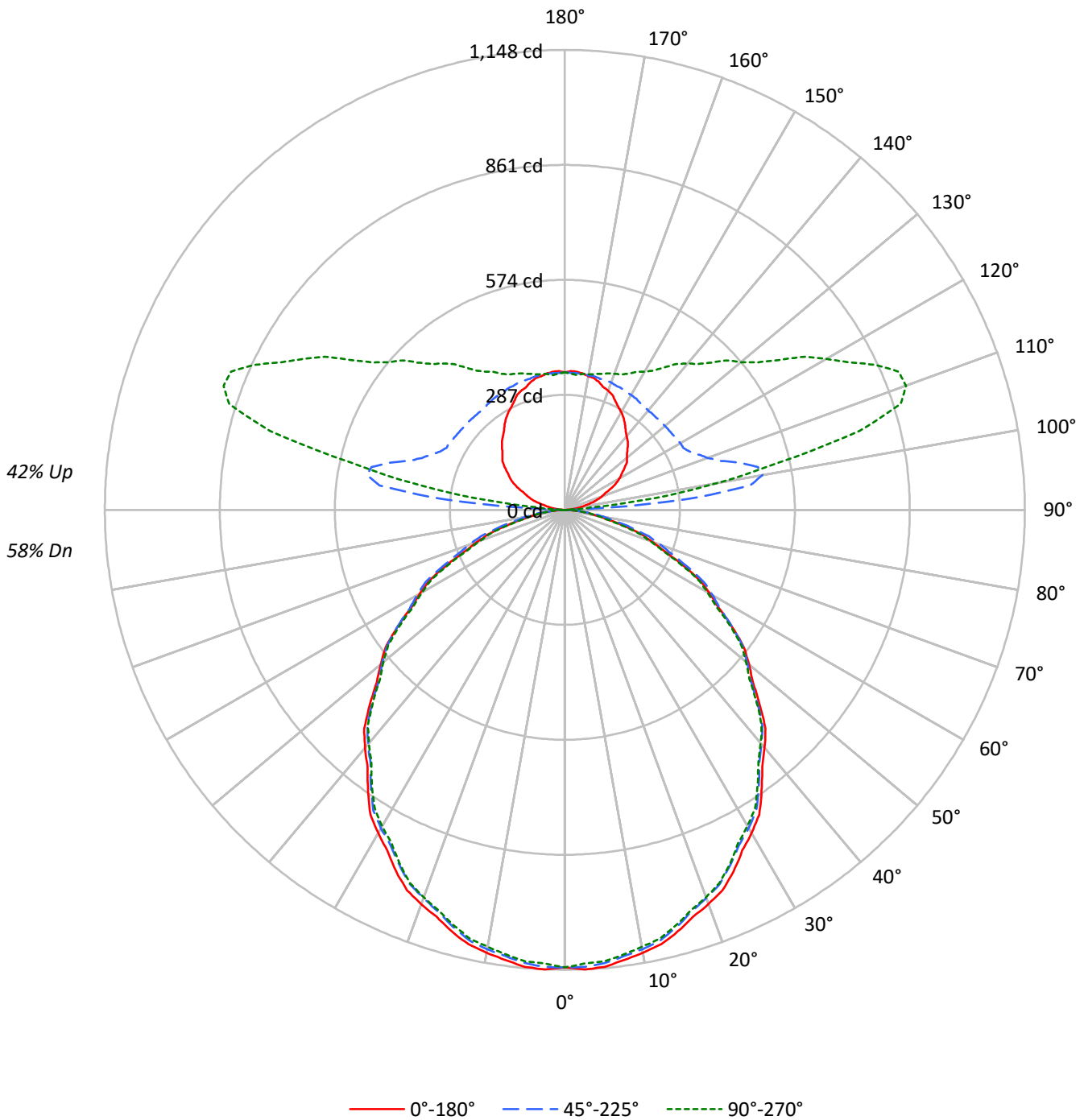
Input Watts (W): 47.7
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Luminous Intensity Polar Plot





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COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

RF	20									20									20									20									
RC	80									50									30									10									0
RW	70	50	30	10	70	50	30	10	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				58															
1	100	95	91	88	93	89	86	83	77	75	72	66	64	63	56	55	54	49				49															
2	91	83	77	72	84	78	72	68	68	64	60	58	55	52	49	47	45	41				41															
3	83	73	66	60	77	69	62	57	60	55	51	52	48	44	44	41	39	35				35															
4	76	65	57	51	70	61	54	48	53	48	43	46	42	38	39	36	33	30				30															
5	70	58	50	44	65	54	47	42	48	42	37	41	37	33	35	32	29	26				26															
6	64	52	44	38	60	49	42	36	43	37	33	37	33	29	32	28	26	23				23															
7	59	47	39	33	55	44	37	32	39	33	29	34	29	26	29	26	23	20				20															
8	55	43	35	30	51	40	33	28	36	30	26	31	26	23	27	23	20	18				18															
9	51	39	32	26	48	37	30	25	33	27	23	29	24	21	25	21	18	16				16															
10	48	36	29	24	45	34	27	23	30	25	21	26	22	19	23	19	17	15				15															

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	10535	10535	10535
5°	10604	10520	10474
10°	10519	10435	10378
15°	10407	10293	10254
20°	10284	10126	10106
25°	10140	9955	9924
30°	9926	9776	9711
35°	9643	9507	9451
40°	9342	9197	9161
45°	8980	8861	8822
50°	8606	8535	8477
55°	8205	8205	8076
60°	7704	7853	7575
65°	7051	7403	6875
70°	6215	6811	6053
75°	5308	6096	5165
80°	4118	5133	4171
85°	2668	3938	3515



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	107.5	2.1
10°-20°	303.6	6.0
20°-30°	450.3	8.9
30°-40°	526.9	10.5
40°-50°	524.6	10.4
50°-60°	453.0	9.0
60°-70°	326.1	6.5
70°-80°	171.0	3.4
80°-90°	42.4	0.8
90°-100°	156.4	3.1
100°-110°	444.9	8.8
110°-120°	426.3	8.5
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°	861.5	17.1
0°-40°	1388.4	27.6
0°-60°	2365.9	47.0
0°-90°	2905.4	57.7
90°-120°	1027.6	20.4
90°-150°	1847.8	36.7
90°-180°	2132.0	42.3
0°-180°	5037.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1142	1142	1142	1142	1142	
5°	1145	1132	1136	1133	1131	108
15°	1090	1076	1078	1076	1074	307
25°	996	979	978	972	975	458
35°	856	844	844	836	839	535
45°	688	682	679	677	676	531
55°	510	509	510	503	502	455
65°	323	333	339	326	315	320
75°	149	163	171	160	145	160
85°	25	33	37	35	33	33
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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CATALOG NUMBER: SQ4-PW1-050U-075D-92765-1D-UNV-STD-W-4 (3000K)

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1141.9	1141.9	1141.9	1141.9	1141.9
2.5°	1148.4	1138.9	1141.9	1139.4	1133.9
5°	1145.0	1132.2	1135.9	1132.8	1130.9
7.5°	1133.3	1121.5	1124.2	1121.0	1119.8
10°	1122.8	1111.0	1113.8	1109.7	1107.7
12.5°	1110.8	1098.2	1100.9	1096.8	1095.7
15°	1089.6	1075.9	1077.6	1075.5	1073.5
17.5°	1065.1	1051.1	1051.4	1048.2	1047.8
20°	1047.4	1032.6	1031.3	1027.3	1029.3
22.5°	1028.1	1012.5	1011.2	1005.6	1008.3
25°	996.1	979.3	977.9	972.0	974.9
27.5°	959.0	942.5	942.5	934.2	937.3
30°	931.7	915.9	917.6	907.6	911.5
32.5°	902.7	888.5	889.4	879.4	883.4
35°	856.2	844.4	844.1	836.2	839.1
37.5°	808.7	798.3	796.6	792.0	792.8
40°	775.7	766.9	763.6	760.6	760.6
42.5°	741.1	733.0	729.8	727.6	726.8
45°	688.2	682.3	679.1	677.1	676.1
47.5°	635.9	630.4	627.6	626.2	625.2
50°	599.6	595.7	594.6	591.6	590.6
52.5°	563.4	561.1	560.0	556.2	555.2
55°	510.1	509.1	510.1	503.0	502.1
57.5°	454.6	456.1	459.4	449.9	447.5
60°	417.5	421.5	425.6	414.4	410.5
62.5°	379.7	386.0	391.8	379.0	373.5
65°	323.0	332.8	339.1	325.7	314.9
67.5°	268.2	280.4	288.0	273.6	261.4
70°	230.4	244.2	252.5	238.1	224.4
72.5°	197.4	212.7	219.5	205.9	192.2
75°	148.9	162.7	171.0	159.6	144.9
77.5°	105.6	118.6	125.6	115.6	103.4
80°	77.5	91.2	96.6	88.3	78.5
82.5°	54.9	66.3	70.0	65.0	58.4
85°	25.2	33.0	37.2	35.2	33.2
87.5°	6.4	11.9	15.3	15.3	16.1
90°	0.0	0.0	0.0	0.0	0.0
92.5°	5.2	27.7	64.2	18.7	14.1
95°	17.0	67.4	302.7	104.8	64.6
97.5°	31.2	78.9	466.2	333.6	228.6
100°	41.1	85.8	501.7	508.2	391.4
102.5°	52.1	93.1	493.9	650.5	548.5
105°	69.2	104.9	453.4	800.9	761.3
107.5°	86.5	118.5	406.2	843.3	878.5
110°	98.5	128.5	379.0	827.1	906.2



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CATALOG NUMBER: SQ4-PW1-050U-075D-92765-1D-UNV-STD-W-4 (3000K)

CANDELA DISTRIBUTION (continued):

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

(END OF REPORT)