

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: P562259

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

Issue Date: 7/30/2021

Test Information

Test Method: LM-79-2019
Report Number: P562259
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-PW1-075U-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 750 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: 6096.2 lumens
Efficiency: N/A
Efficacy: 109.6 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

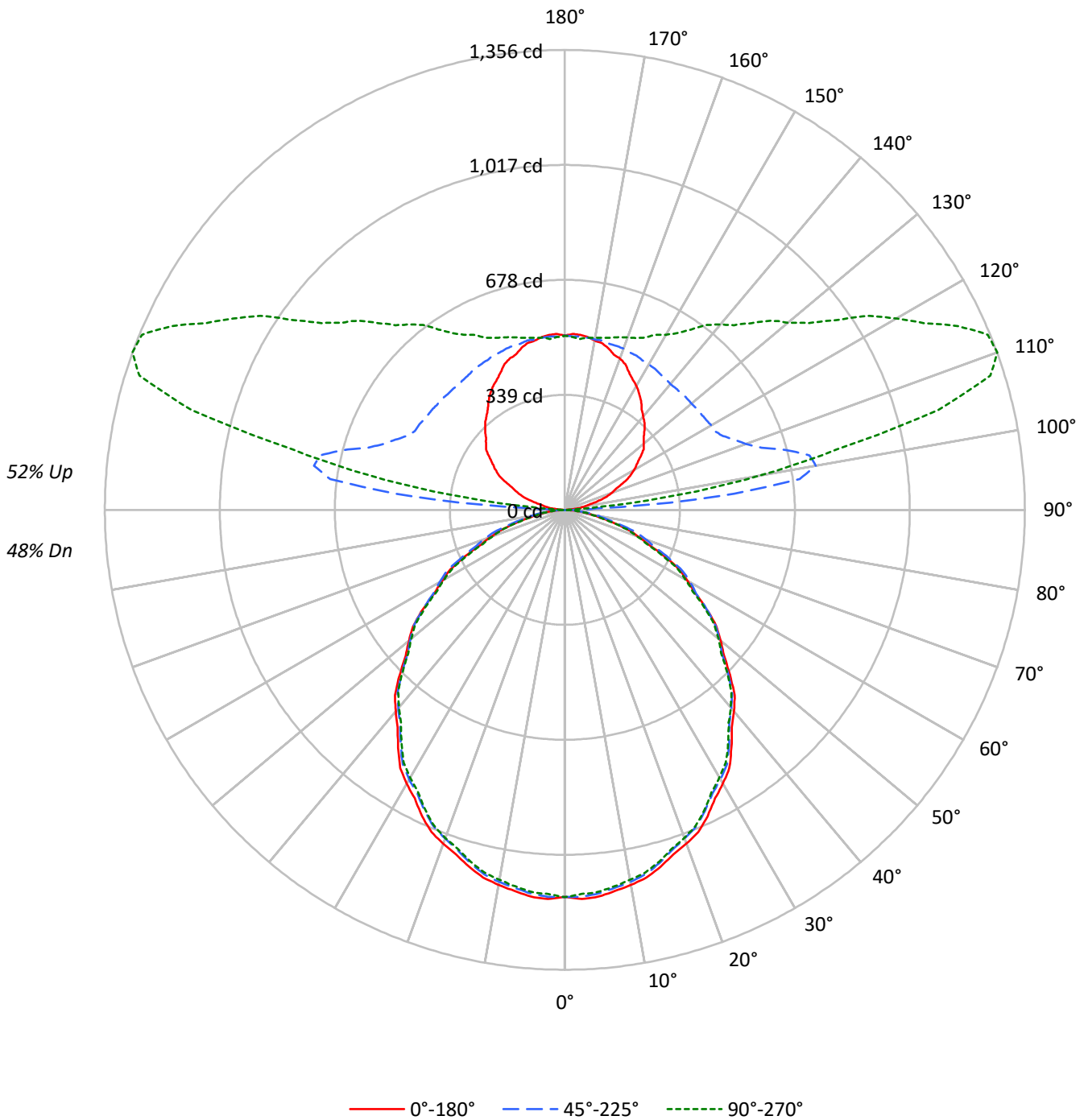
Input Watts (W): 55.6
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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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	50	30	10	0	
RCR																						
0	107	107	107	107	98	98	98	98	82	82	82	67	67	67	54	54	54	48				48
1	97	93	89	86	89	86	83	80	72	70	68	59	58	56	48	47	46				40	
2	89	81	75	70	81	75	70	65	63	59	56	52	50	47	42	40	39				34	
3	81	72	64	59	74	66	60	55	56	51	47	46	43	40	37	35	33				29	
4	74	63	56	50	68	59	52	46	50	44	40	41	37	34	33	31	28				25	
5	68	56	48	42	62	52	45	40	44	39	35	37	33	30	30	27	25				22	
6	63	51	43	37	57	47	40	35	40	34	30	33	29	26	27	24	22				19	
7	58	46	38	32	53	42	35	30	36	31	27	30	26	23	25	22	19				17	
8	54	41	34	28	49	39	32	27	33	28	24	28	24	21	23	20	17				15	
9	50	38	30	25	46	35	29	24	30	25	21	26	21	18	21	18	16				14	
10	47	35	28	23	43	32	26	21	28	23	19	24	20	17	20	17	14				12	

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	1.8
10°-20°	303.6	5.0
20°-30°	450.3	7.4
30°-40°	526.9	8.6
40°-50°	524.6	8.6
50°-60°	453.0	7.4
60°-70°	326.1	5.3
70°-80°	171.0	2.8
80°-90°	42.4	0.7
90°-100°	234.1	3.8
100°-110°	666.0	10.9
110°-120°	638.1	10.5
120°-130°	505.0	8.3
130°-140°	405.4	6.6
140°-150°	317.4	5.2
150°-160°	232.2	3.8
160°-170°	143.8	2.4
170°-180°	48.8	0.8
0°-30°	861.5	14.1
0°-40°	1388.4	22.8
0°-60°	2365.9	38.8
0°-90°	2905.4	47.7
90°-120°	1538.2	25.2
90°-150°	2766.0	45.4
90°-180°	3191.0	52.3
0°-180°	6096.2	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°	25	101	453	157	97	29
105°	104	157	679	1199	1140	110
115°	192	232	515	1090	1280	189
125°	272	301	491	815	975	243
135°	332	360	485	689	778	256
145°	392	412	489	596	649	245
155°	447	458	501	539	560	207
165°	494	496	507	518	525	139
175°	518	515	513	510	506	49
180°	514	514	514	514	514	

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CATALOG NUMBER: SQ4-PW1-075U-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°	7.8	41.4	96.1	28.0	21.1
95°	25.4	100.8	453.1	156.8	96.7
97.5°	46.7	118.1	697.9	499.4	342.2
100°	61.5	128.4	751.0	760.7	585.9
102.5°	77.9	139.4	739.3	973.7	821.1
105°	103.5	157.0	678.7	1198.9	1139.7
107.5°	129.5	177.4	608.0	1262.3	1315.0
110°	147.5	192.3	567.4	1238.0	1356.5

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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	164.6	207.2	540.0	1180.6	1349.4
115°	192.4	232.5	514.7	1090.3	1280.3
117.5°	216.8	254.4	499.6	991.5	1192.8
120°	236.3	267.8	498.0	935.1	1127.9
122.5°	252.0	283.5	494.1	885.5	1064.7
125°	271.5	301.1	491.2	815.2	974.6
127.5°	292.8	320.5	489.7	773.1	904.5
130°	303.7	331.4	487.3	743.8	858.4
132.5°	315.4	342.4	487.3	721.0	826.4
135°	332.0	359.7	485.4	688.6	778.3
137.5°	347.7	374.6	485.2	661.1	738.7
140°	359.4	387.1	484.4	638.4	712.9
142.5°	372.7	395.8	486.7	620.3	687.1
145°	391.6	411.7	489.3	595.9	649.4
147.5°	407.8	427.3	493.6	571.4	617.6
150°	421.9	435.2	495.1	563.2	595.7
152.5°	432.8	446.9	496.7	552.3	582.4
155°	447.3	457.8	501.0	538.6	560.5
157.5°	465.2	471.5	502.0	532.4	548.0
160°	474.6	479.4	505.9	527.6	541.0
162.5°	480.1	485.6	506.6	523.7	534.0
165°	494.1	496.1	506.8	517.8	525.4
167.5°	503.7	502.0	511.3	516.3	519.3
170°	506.8	505.9	509.8	510.8	514.7
172.5°	513.9	510.6	512.1	509.3	512.3
175°	517.6	514.7	512.7	509.7	505.9
177.5°	519.1	514.6	512.1	509.0	509.8
180°	513.7	513.7	513.7	513.7	513.7

(END OF REPORT)