

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: P564726

Luminaire Tested: **SQ4-PW1-075U-050D-930-1D-UNV-STD-W-4**

Issue Date: 7/30/2021

Test Information

Test Method: LM-79-2019
Report Number: P564726
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1910-536-22, 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-050D-930-1D-UNV-STD-W-4
Description: CORELITE SQ4 SUSPENDED LED LUMINAIRE WITH PERCEIVE WAVES CONTINUOUS LENS.
DOWNLIGHT 500 LUMENS PER FOOT
UPLIGHT 750 LUMENS PER FOOT
Light Source: 3000K CCT, 90 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

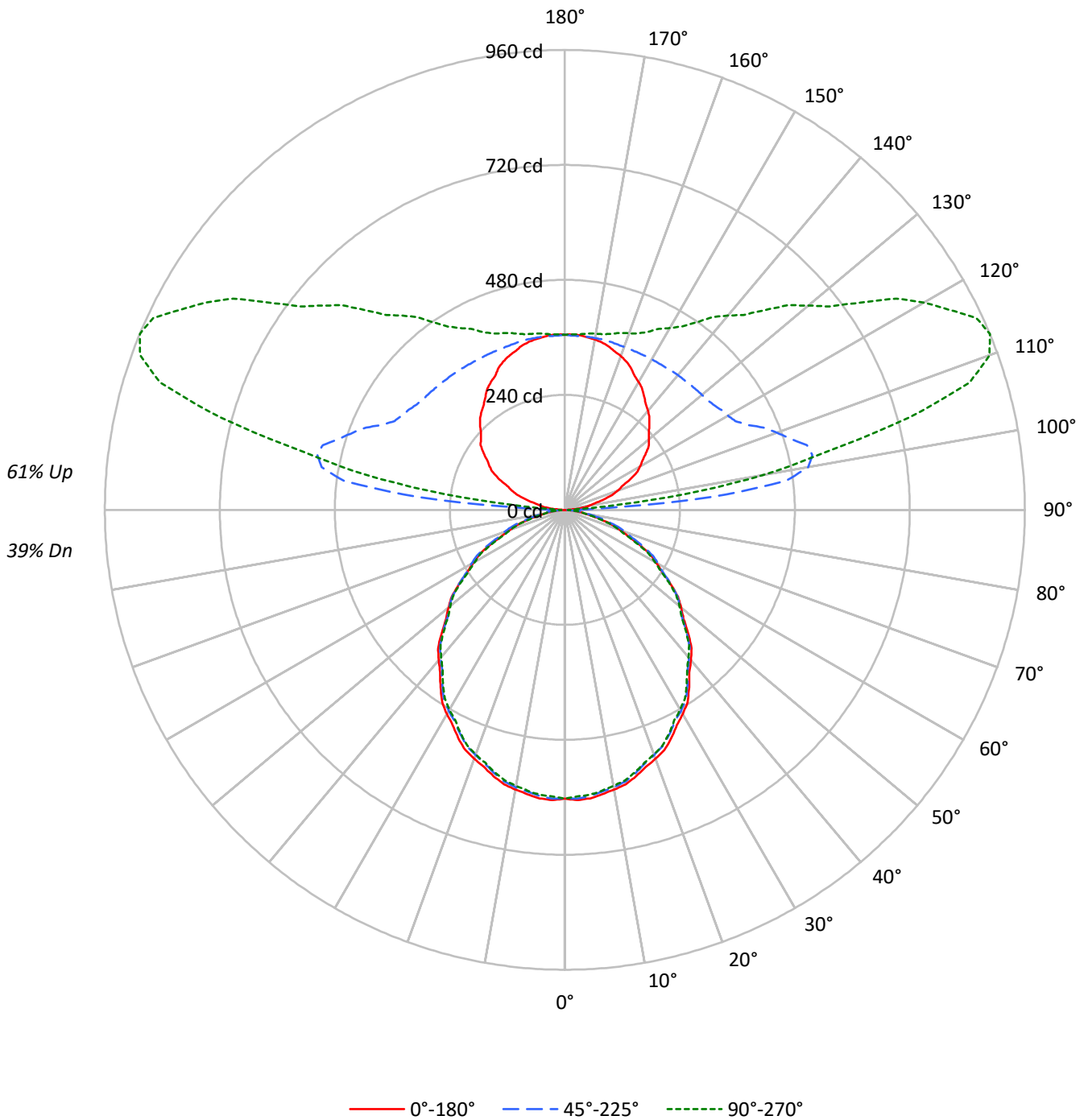
Lumens per Lamp: N/A
Luminaire Lumens: 3917.5 lumens
Efficiency: N/A
Efficacy: 112.9 lumens/watt
Spacing Criteria (0/90/45): 1.22 / 1.19 / 1.31
Luminous Opening: Rectangular (W 0.29' x L: 4' x H: 0')
CIE Type: Semi-Indirect

Input Watts (W): 34.7
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	105	105	105	105	95	95	95	95	77	77	77	61	61	61	46	46	46	39
1	95	91	87	84	87	83	80	77	68	66	64	54	52	51	41	40	39	33
2	87	80	74	69	79	73	68	63	59	56	53	47	45	43	36	34	33	28
3	79	70	63	57	72	64	58	53	52	48	44	42	39	36	32	30	28	24
4	73	62	54	48	66	57	50	45	47	42	38	37	34	31	29	26	24	20
5	67	55	47	41	60	50	44	38	42	36	32	33	30	27	26	23	21	18
6	61	49	41	36	55	45	38	33	37	32	28	30	26	23	23	21	19	16
7	57	45	37	31	51	41	34	29	34	29	25	27	24	21	21	19	17	14
8	52	40	33	28	48	37	30	26	31	26	22	25	21	18	20	17	15	12
9	49	37	29	24	44	34	27	23	28	23	20	23	19	16	18	15	13	11
10	45	34	27	22	41	31	25	20	26	21	18	21	18	15	17	14	12	10

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	5563	5563	5563
5°	5599	5555	5531
10°	5555	5510	5481
15°	5496	5435	5415
20°	5431	5347	5336
25°	5355	5257	5241
30°	5242	5162	5129
35°	5092	5021	4991
40°	4933	4857	4838
45°	4742	4679	4658
50°	4546	4507	4477
55°	4333	4333	4264
60°	4069	4146	4000
65°	3722	3908	3631
70°	3283	3599	3197
75°	2802	3219	2727
80°	2173	2710	2200
85°	1408	2085	1853



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	56.8	1.4
10°-20°	160.3	4.1
20°-30°	237.8	6.1
30°-40°	278.3	7.1
40°-50°	277.0	7.1
50°-60°	239.2	6.1
60°-70°	172.2	4.4
70°-80°	90.3	2.3
80°-90°	23.3	0.6
90°-100°	172.5	4.4
100°-110°	474.5	12.1
110°-120°	489.8	12.5
120°-130°	392.4	10.0
130°-140°	308.2	7.9
140°-150°	236.2	6.0
150°-160°	169.8	4.3
160°-170°	103.8	2.7
170°-180°	35.0	0.9
0°-30°	454.9	11.6
0°-40°	733.2	18.7
0°-60°	1249.4	31.9
0°-90°	1535.2	39.2
90°-120°	1136.8	29.0
90°-150°	2073.6	52.9
90°-180°	2382.0	60.8
0°-180°	3917.5	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	603	603	603	603	603	
5°	605	598	600	598	597	57
15°	575	568	569	568	567	162
25°	526	517	516	513	515	242
35°	452	446	446	442	443	283
45°	363	360	359	358	357	280
55°	269	269	269	266	265	240
65°	170	176	179	172	166	169
75°	79	86	90	84	76	84
85°	13	17	20	19	18	18
90°	1	3	5	7	7	2
95°	26	94	305	130	83	27
105°	85	130	523	796	743	89
115°	150	183	419	835	948	148
125°	207	236	380	644	754	185
135°	250	277	370	520	589	193
145°	289	308	364	444	478	181
155°	327	337	362	399	410	150
165°	353	358	363	378	380	100
175°	366	366	364	369	368	35
180°	366	366	366	366	366	

TEST NUMBER: P564726

CATALOG NUMBER: SQ4-PW1-075U-050D-930-1D-UNV-STD-W-4

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	603.0	603.0	603.0	603.0	603.0
2.5°	606.4	601.4	603.0	601.7	598.8
5°	604.6	597.9	599.8	598.2	597.2
7.5°	598.5	592.2	593.7	592.0	591.3
10°	592.9	586.7	588.1	586.0	585.0
12.5°	586.6	579.9	581.3	579.2	578.6
15°	575.4	568.1	569.0	567.9	566.9
17.5°	562.4	555.1	555.2	553.5	553.3
20°	553.1	545.3	544.6	542.5	543.5
22.5°	542.9	534.7	534.0	531.0	532.5
25°	526.0	517.2	516.4	513.3	514.8
27.5°	506.4	497.7	497.7	493.3	495.0
30°	492.0	483.7	484.5	479.3	481.4
32.5°	476.7	469.2	469.7	464.4	466.5
35°	452.1	445.9	445.8	441.5	443.1
37.5°	427.1	421.6	420.7	418.2	418.7
40°	409.6	405.0	403.3	401.7	401.7
42.5°	391.4	387.1	385.4	384.2	383.8
45°	363.4	360.3	358.6	357.6	357.0
47.5°	335.8	332.9	331.4	330.7	330.1
50°	316.7	314.6	314.0	312.4	311.9
52.5°	297.5	296.3	295.7	293.7	293.2
55°	269.4	268.8	269.4	265.6	265.1
57.5°	240.0	240.9	242.6	237.6	236.3
60°	220.5	222.6	224.7	218.8	216.8
62.5°	200.5	203.8	206.9	200.1	197.2
65°	170.5	175.7	179.0	172.0	166.3
67.5°	141.6	148.1	152.1	144.5	138.0
70°	121.7	128.9	133.4	125.8	118.5
72.5°	104.2	112.3	115.9	108.8	101.5
75°	78.6	85.9	90.3	84.3	76.5
77.5°	55.8	62.6	66.3	61.1	54.6
80°	40.9	48.2	51.0	46.6	41.4
82.5°	29.0	35.0	37.0	34.3	30.8
85°	13.3	17.4	19.7	18.6	17.5
87.5°	3.6	6.9	9.2	9.5	9.9
90°	0.8	3.1	5.4	7.0	7.0
92.5°	10.7	45.9	79.5	30.5	25.1
95°	25.7	94.1	305.0	130.4	83.3
97.5°	41.9	104.4	465.4	358.6	253.0
100°	53.7	110.7	515.9	520.7	424.8
102.5°	64.9	118.3	528.9	646.0	558.0
105°	84.8	130.5	522.9	796.3	743.0
107.5°	103.8	145.5	493.1	869.9	885.7
110°	117.5	155.5	470.7	888.2	943.0

TEST NUMBER: P564726

CATALOG NUMBER: SQ4-PW1-075U-050D-930-1D-UNV-STD-W-4

CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	129.9	166.8	448.3	876.4	959.8
115°	150.2	182.9	419.4	835.1	947.7
117.5°	169.5	199.6	401.0	777.1	904.4
120°	181.3	210.2	392.9	733.6	865.2
122.5°	191.9	220.8	387.3	695.5	820.4
125°	207.0	235.9	380.5	643.6	753.9
127.5°	221.3	248.8	376.0	600.4	697.1
130°	228.8	256.9	373.5	574.7	662.9
132.5°	237.5	265.6	371.6	552.1	631.8
135°	249.8	277.1	369.6	520.5	589.0
137.5°	261.3	286.7	367.9	495.0	551.5
140°	270.0	293.6	367.2	478.1	529.1
142.5°	277.5	299.2	366.0	463.0	506.7
145°	288.7	308.4	364.1	443.5	477.7
147.5°	300.6	317.7	363.2	426.2	453.6
150°	308.1	323.3	362.6	416.7	438.0
152.5°	315.0	329.0	362.0	408.6	426.2
155°	326.8	337.4	361.8	398.6	410.0
157.5°	335.3	344.0	361.8	390.5	398.4
160°	341.6	348.4	361.8	386.1	392.1
162.5°	346.5	352.2	362.4	382.3	387.2
165°	353.2	357.8	363.4	378.2	380.5
167.5°	357.9	361.4	364.1	374.7	375.3
170°	361.0	363.3	364.1	373.5	373.5
172.5°	363.5	364.6	364.1	371.6	371.0
175°	365.7	366.4	364.1	368.8	368.0
177.5°	366.3	366.3	363.8	367.5	366.3
180°	365.7	365.7	365.7	365.7	365.7

(END OF REPORT)