

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: P564557

Luminaire Tested: **SQ4-PW1-025U-075D-930-1D-UNV-STD-W-12**

Issue Date: 7/30/2021

Test Information

Test Method: LM-79-2019
Report Number: P564557
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1910-536-32, 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-PW1-025U-075D-930-1D-UNV-STD-W-12
Description: CORELITE SQ4 SUSPENDED LED LUMINAIRE WITH PERCEIVE WAVES CONTINUOUS LENS.
DOWNLIGHT 750 LUMENS PER FOOT
UPLIGHT 250 LUMENS PER FOOT
Light Source: 3000K CCT, 90 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 9091.8 lumens
Efficiency: N/A
Efficacy: 95.9 lumens/watt
Spacing Criteria (0/90/45): 1.22 / 1.19 / 1.31
Luminous Opening: Rectangular (W 0.29' x L: 12' x H: 0')
CIE Type: Semi-Direct

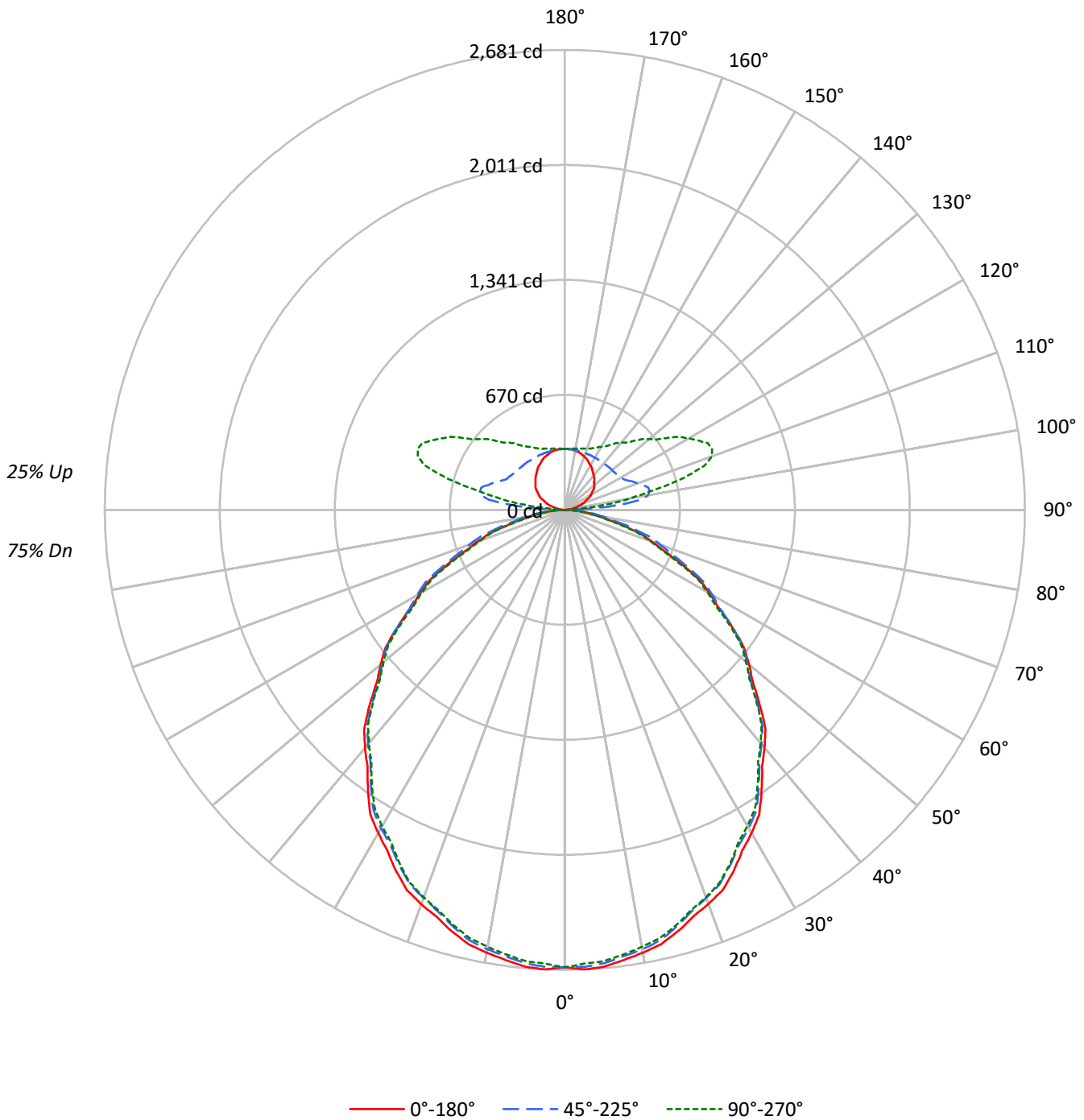
Input Watts (W): 94.8
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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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	113	113	113	113	107	107	107	107	97	97	97	87	87	87	79	79	79	75
1	103	99	95	91	98	94	91	88	86	83	80	77	75	73	70	68	67	63
2	94	87	80	75	89	83	77	72	75	71	67	68	65	62	62	59	57	53
3	86	76	69	63	82	73	66	60	66	61	56	60	56	52	55	51	48	45
4	79	68	59	53	75	65	57	51	59	53	48	54	49	45	49	45	42	39
5	73	61	52	46	69	58	50	44	53	47	42	48	43	39	44	40	36	34
6	67	54	46	40	64	52	44	39	48	41	37	44	38	34	40	36	32	30
7	62	49	41	35	59	47	40	34	44	37	32	40	35	30	37	32	29	26
8	58	45	37	31	55	43	36	31	40	33	29	37	31	27	34	29	26	23
9	54	41	33	28	51	40	32	27	37	30	26	34	28	25	31	27	23	21
10	50	38	30	25	48	37	30	25	34	28	24	31	26	22	29	24	21	19

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	8200	8200	8200
5°	8253	8188	8152
10°	8187	8121	8077
15°	8100	8011	7981
20°	8004	7881	7865
25°	7892	7748	7725
30°	7725	7608	7558
35°	7506	7400	7356
40°	7271	7159	7130
45°	6989	6897	6866
50°	6699	6643	6598
55°	6386	6386	6286
60°	5996	6112	5896
65°	5488	5761	5351
70°	4838	5303	4711
75°	4132	4746	4020
80°	3204	3994	3245
85°	2071	3066	2735



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	251.1	2.8
10°-20°	708.9	7.8
20°-30°	1051.5	11.6
30°-40°	1230.3	13.5
40°-50°	1224.8	13.5
50°-60°	1057.7	11.6
60°-70°	761.4	8.4
70°-80°	399.3	4.4
80°-90°	100.9	1.1
90°-100°	173.4	1.9
100°-110°	455.8	5.0
110°-120°	472.7	5.2
120°-130°	379.1	4.2
130°-140°	297.5	3.3
140°-150°	228.3	2.5
150°-160°	164.5	1.8
160°-170°	100.6	1.1
170°-180°	34.0	0.4
0°-30°	2011.4	22.1
0°-40°	3241.8	35.7
0°-60°	5524.3	60.8
0°-90°	6785.8	74.6
90°-120°	1101.9	12.1
90°-150°	2006.9	22.1
90°-180°	2306.0	25.4
0°-180°	9091.8	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2666	2666	2666	2666	2666	
5°	2673	2644	2652	2645	2640	253
15°	2544	2512	2516	2511	2507	717
25°	2326	2287	2283	2270	2276	1069
35°	1999	1972	1971	1952	1959	1250
45°	1607	1593	1586	1581	1579	1240
55°	1191	1189	1191	1175	1172	1063
65°	754	777	792	761	735	747
75°	348	380	399	373	338	373
85°	59	77	87	82	78	78
90°	2	7	18	9	9	4
95°	23	90	299	154	105	25
105°	82	124	504	765	714	87
115°	146	177	404	805	919	144
125°	203	228	367	621	732	180
135°	242	266	356	501	568	187
145°	280	298	351	427	461	176
155°	317	326	351	386	397	146
165°	342	346	351	365	369	97
175°	356	356	354	358	358	34
180°	356	356	356	356	356	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2666.4	2666.4	2666.4	2666.4	2666.4
2.5°	2681.4	2659.3	2666.4	2660.4	2647.6
5°	2673.4	2643.5	2652.3	2645.1	2640.5
7.5°	2646.2	2618.6	2625.0	2617.4	2614.7
10°	2621.7	2594.2	2600.6	2591.1	2586.5
12.5°	2593.5	2564.1	2570.5	2561.1	2558.3
15°	2544.2	2512.0	2516.0	2511.2	2506.6
17.5°	2486.9	2454.3	2454.9	2447.4	2446.5
20°	2445.5	2411.1	2407.9	2398.7	2403.3
22.5°	2400.4	2364.1	2361.0	2348.0	2354.4
25°	2325.7	2286.7	2283.4	2269.5	2276.4
27.5°	2239.3	2200.7	2200.7	2181.2	2188.5
30°	2175.4	2138.6	2142.5	2119.2	2128.4
32.5°	2107.7	2074.6	2076.7	2053.4	2062.6
35°	1999.2	1971.6	1971.0	1952.4	1959.2
37.5°	1888.3	1864.0	1860.1	1849.3	1851.2
40°	1811.2	1790.6	1783.1	1776.0	1776.0
42.5°	1730.4	1711.6	1704.1	1698.9	1697.1
45°	1606.9	1593.1	1585.7	1581.0	1578.7
47.5°	1484.7	1471.8	1465.4	1462.1	1459.8
50°	1400.1	1390.9	1388.4	1381.3	1379.0
52.5°	1315.6	1310.0	1307.6	1298.6	1296.3
55°	1191.1	1188.8	1191.1	1174.6	1172.3
57.5°	1061.4	1065.1	1072.7	1050.4	1044.9
60°	974.9	984.1	993.7	967.7	958.5
62.5°	886.6	901.3	914.8	884.9	872.0
65°	754.1	777.1	791.7	760.6	735.3
67.5°	626.3	654.8	672.3	638.8	610.3
70°	538.0	570.1	589.7	556.0	523.9
72.5°	460.9	496.8	512.6	480.9	448.7
75°	347.7	379.8	399.4	372.7	338.3
77.5°	246.7	277.0	293.2	270.0	241.5
80°	180.9	213.0	225.5	206.2	183.2
82.5°	128.3	154.9	163.5	151.9	136.3
85°	58.7	77.1	86.9	82.1	77.5
87.5°	15.5	29.2	39.4	37.6	39.4
90°	2.3	6.7	18.2	9.1	9.1
92.5°	9.6	46.1	102.2	45.2	29.2
95°	22.8	89.7	298.7	154.0	104.9
97.5°	39.7	98.5	447.0	355.5	261.8
100°	52.5	106.0	492.6	499.2	387.7
102.5°	63.4	113.3	505.4	621.8	526.3
105°	82.1	124.5	504.0	765.1	713.8
107.5°	101.3	140.5	475.3	839.5	852.0
110°	114.0	149.7	451.5	858.7	912.2

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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	126.8	160.7	429.7	846.6	928.6
115°	146.0	177.2	403.7	805.3	919.1
117.5°	164.7	193.2	385.9	748.1	874.4
120°	175.6	202.4	378.6	709.7	832.4
122.5°	186.5	213.3	373.1	671.4	792.3
125°	203.0	227.5	367.2	620.6	732.0
127.5°	216.2	241.2	362.1	579.6	673.7
130°	223.5	250.2	360.3	553.9	640.8
132.5°	230.8	257.5	358.5	531.8	609.8
135°	241.7	266.3	355.8	501.0	567.9
137.5°	253.1	277.2	355.3	477.9	532.7
140°	262.3	284.6	353.5	459.6	510.8
142.5°	269.6	290.1	353.5	446.6	490.8
145°	280.5	298.3	351.2	427.2	460.7
147.5°	291.5	308.8	351.2	411.1	438.8
150°	298.7	314.4	351.2	401.9	424.2
152.5°	306.0	318.1	351.2	394.5	411.4
155°	317.0	325.9	351.2	385.7	396.8
157.5°	325.2	333.7	351.2	377.8	385.9
160°	330.7	337.4	351.2	374.1	378.6
162.5°	336.1	341.1	351.2	370.5	374.9
165°	342.1	346.5	351.2	365.0	369.4
167.5°	347.6	349.8	353.5	362.6	364.4
170°	351.2	353.4	353.5	362.6	362.6
172.5°	353.0	353.5	353.5	360.7	359.0
175°	355.8	355.8	353.5	358.0	358.0
177.5°	355.8	355.8	353.9	357.5	355.8
180°	355.8	355.8	355.8	355.8	355.8

(END OF REPORT)