

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: P564578

Luminaire Tested: **SQ4-PW1-025U-100D-840-1D-UNV-STD-W-4**

Issue Date: 7/30/2021

Test Information

Test Method: LM-79-2019
Report Number: P564578
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-100D-840-1D-UNV-STD-W-4
Description: CORELITE SQ4 SUSPENDED LED LUMINAIRE WITH PERCEIVE WAVES CONTINUOUS LENS.
DOWNLIGHT 1000 LUMENS PER FOOT
UPLIGHT 250 LUMENS PER FOOT
Light Source: 4000K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

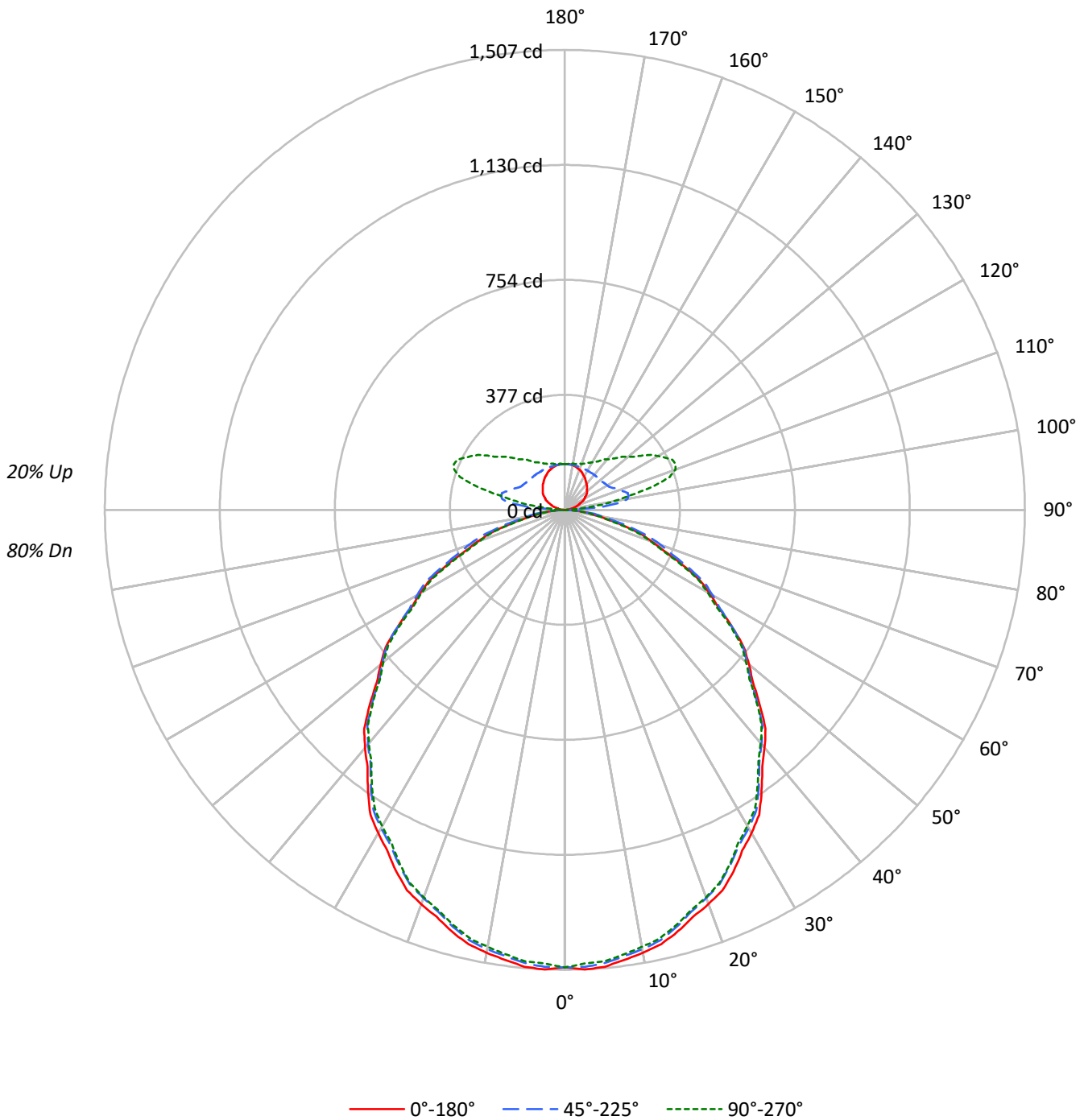
Lumens per Lamp: N/A
Luminaire Lumens: 4790.2 lumens
Efficiency: N/A
Efficacy: 123.8 lumens/watt
Spacing Criteria (0/90/45): 1.22 / 1.19 / 1.31
Luminous Opening: Rectangular (W 0.29' x L: 4' x H: 0')
CIE Type: Semi-Direct

Input Watts (W): 38.7
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



TEST NUMBER: P564578
CATALOG NUMBER: SQ4-PW1-025U-100D-840-1D-UNV-STD-W-4

Luminous Intensity Polar Plot





TEST NUMBER: P564578

CATALOG NUMBER: SQ4-PW1-025U-100D-840-1D-UNV-STD-W-4

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	114	114	114	114	109	109	109	109	100	100	100	91	91	91	83	83	83	80
1	105	100	96	93	100	96	92	89	88	85	83	81	79	77	74	72	71	67
2	95	88	81	76	91	84	78	73	77	73	69	71	67	64	65	62	60	57
3	87	77	70	63	83	74	67	62	68	63	58	63	58	54	58	54	51	48
4	80	69	60	54	76	66	58	52	61	55	50	56	51	47	52	48	44	41
5	73	61	53	46	70	59	51	45	55	48	43	51	45	41	47	42	38	36
6	68	55	47	41	65	53	45	40	49	43	38	46	40	36	42	38	34	32
7	63	50	42	36	60	48	40	35	45	38	33	42	36	32	39	34	30	28
8	58	46	37	32	56	44	36	31	41	35	30	38	33	28	36	31	27	25
9	55	42	34	29	52	40	33	28	38	31	27	35	30	26	33	28	25	23
10	51	39	31	26	49	37	30	25	35	29	24	33	27	23	31	26	22	21

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	13830	13830	13830
5°	13919	13810	13748
10°	13808	13697	13623
15°	13662	13511	13460
20°	13498	13291	13266
25°	13310	13068	13027
30°	13029	12832	12747
35°	12659	12481	12406
40°	12263	12073	12025
45°	11786	11632	11580
50°	11298	11203	11127
55°	10771	10771	10600
60°	10114	10308	9942
65°	9254	9717	9025
70°	8157	8942	7944
75°	6969	8003	6780
80°	5403	6737	5473
85°	3493	5176	4615



TEST NUMBER: P564578

CATALOG NUMBER: SQ4-PW1-025U-100D-840-1D-UNV-STD-W-4

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	141.2	2.9
10°-20°	398.5	8.3
20°-30°	591.1	12.3
30°-40°	691.7	14.4
40°-50°	688.6	14.4
50°-60°	594.6	12.4
60°-70°	428.0	8.9
70°-80°	224.5	4.7
80°-90°	56.5	1.2
90°-100°	73.4	1.5
100°-110°	192.9	4.0
110°-120°	200.0	4.2
120°-130°	160.4	3.3
130°-140°	125.9	2.6
140°-150°	96.6	2.0
150°-160°	69.6	1.5
160°-170°	42.6	0.9
170°-180°	14.4	0.3
0°-30°	1130.8	23.6
0°-40°	1822.5	38.0
0°-60°	3105.7	64.8
0°-90°	3814.6	79.6
90°-120°	466.2	9.7
90°-150°	849.1	17.7
90°-180°	976.0	20.4
0°-180°	4790.2	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1499	1499	1499	1499	1499	
5°	1503	1486	1491	1487	1484	142
15°	1430	1412	1414	1412	1409	403
25°	1308	1286	1284	1276	1280	601
35°	1124	1108	1108	1098	1102	703
45°	903	896	892	889	888	697
55°	670	668	670	660	659	597
65°	424	437	445	428	413	420
75°	196	214	224	210	190	210
85°	33	43	49	46	44	44
90°	1	3	8	4	4	2
95°	10	38	126	65	44	11
105°	35	53	213	324	302	37
115°	62	75	171	341	389	61
125°	86	96	155	263	310	76
135°	102	113	150	212	240	79
145°	119	126	149	181	195	74
155°	134	138	149	163	168	62
165°	145	147	149	154	156	41
175°	150	150	150	152	152	14
180°	150	150	150	150	150	

TEST NUMBER: P564578

CATALOG NUMBER: SQ4-PW1-025U-100D-840-1D-UNV-STD-W-4

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1499.0	1499.0	1499.0	1499.0	1499.0
2.5°	1507.4	1495.0	1499.0	1495.6	1488.4
5°	1502.9	1486.2	1491.1	1487.0	1484.4
7.5°	1487.6	1472.1	1475.7	1471.5	1469.9
10°	1473.9	1458.4	1462.0	1456.7	1454.1
12.5°	1458.0	1441.5	1445.1	1439.8	1438.2
15°	1430.3	1412.2	1414.5	1411.8	1409.2
17.5°	1398.1	1379.7	1380.1	1375.9	1375.4
20°	1374.8	1355.5	1353.7	1348.5	1351.1
22.5°	1349.5	1329.1	1327.3	1320.0	1323.6
25°	1307.5	1285.5	1283.7	1275.9	1279.7
27.5°	1258.9	1237.2	1237.2	1226.2	1230.3
30°	1223.0	1202.3	1204.5	1191.4	1196.5
32.5°	1184.9	1166.3	1167.5	1154.4	1159.6
35°	1123.9	1108.4	1108.1	1097.6	1101.5
37.5°	1061.6	1047.9	1045.7	1039.7	1040.7
40°	1018.2	1006.6	1002.4	998.4	998.4
42.5°	972.8	962.2	958.0	955.1	954.1
45°	903.3	895.6	891.5	888.8	887.5
47.5°	834.7	827.4	823.8	822.0	820.7
50°	787.1	782.0	780.5	776.5	775.2
52.5°	739.6	736.5	735.1	730.0	728.8
55°	669.6	668.3	669.6	660.3	659.0
57.5°	596.7	598.8	603.0	590.5	587.4
60°	548.1	553.2	558.6	544.0	538.8
62.5°	498.4	506.7	514.3	497.5	490.2
65°	423.9	436.9	445.1	427.6	413.4
67.5°	352.1	368.1	378.0	359.1	343.1
70°	302.4	320.5	331.5	312.6	294.5
72.5°	259.1	279.3	288.2	270.3	252.3
75°	195.5	213.5	224.5	209.5	190.2
77.5°	138.7	155.7	164.8	151.8	135.8
80°	101.7	119.8	126.8	115.9	103.0
82.5°	72.1	87.1	91.9	85.4	76.6
85°	33.0	43.3	48.9	46.2	43.6
87.5°	8.6	16.3	21.6	20.9	21.9
90°	1.0	2.9	7.7	3.9	3.9
92.5°	4.1	19.5	43.2	19.1	12.4
95°	9.6	38.0	126.4	65.1	44.4
97.5°	16.8	41.7	189.1	150.4	110.8
100°	22.2	44.8	208.4	211.2	164.0
102.5°	26.8	48.0	213.8	263.1	222.7
105°	34.7	52.7	213.2	323.7	302.0
107.5°	42.8	59.4	201.1	355.2	360.5
110°	48.2	63.3	191.1	363.3	386.0



TEST NUMBER: P564578

CATALOG NUMBER: SQ4-PW1-025U-100D-840-1D-UNV-STD-W-4

CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	53.6	68.0	181.8	358.2	392.9
115°	61.8	75.0	170.8	340.7	388.9
117.5°	69.7	81.7	163.3	316.5	369.9
120°	74.3	85.6	160.2	300.3	352.2
122.5°	78.9	90.3	157.9	284.1	335.2
125°	85.9	96.3	155.3	262.6	309.7
127.5°	91.5	102.0	153.2	245.2	285.0
130°	94.6	105.9	152.5	234.3	271.1
132.5°	97.6	109.0	151.7	225.0	258.0
135°	102.3	112.7	150.5	212.0	240.3
137.5°	107.1	117.3	150.3	202.2	225.4
140°	111.0	120.4	149.6	194.4	216.1
142.5°	114.1	122.7	149.6	189.0	207.6
145°	118.7	126.2	148.6	180.8	194.9
147.5°	123.3	130.7	148.6	173.9	185.6
150°	126.4	133.0	148.6	170.0	179.5
152.5°	129.5	134.6	148.6	166.9	174.1
155°	134.1	137.9	148.6	163.2	167.9
157.5°	137.6	141.2	148.6	159.9	163.3
160°	139.9	142.7	148.6	158.3	160.2
162.5°	142.2	144.3	148.6	156.7	158.6
165°	144.7	146.6	148.6	154.4	156.3
167.5°	147.1	148.0	149.6	153.4	154.2
170°	148.6	149.5	149.6	153.4	153.4
172.5°	149.4	149.6	149.6	152.6	151.9
175°	150.5	150.5	149.6	151.5	151.5
177.5°	150.5	150.5	149.8	151.3	150.5
180°	150.5	150.5	150.5	150.5	150.5

(END OF REPORT)