

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: P564998

Luminaire Tested: **SQ4-PW1-100U-125D-940-1D-UNV-STD-W-4**

Issue Date: 7/30/2021

Test Information

Test Method: LM-79-2019
Report Number: P564998
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1910-536-23, 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-PW1-100U-125D-940-1D-UNV-STD-W-4
Description: CORELITE SQ4 SUSPENDED LED LUMINAIRE WITH PERCEIVE WAVES CONTINUOUS LENS.
DOWNLIGHT 1250 LUMENS PER FOOT
UPLIGHT 1000 LUMENS PER FOOT
Light Source: 4000K CCT, 90 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

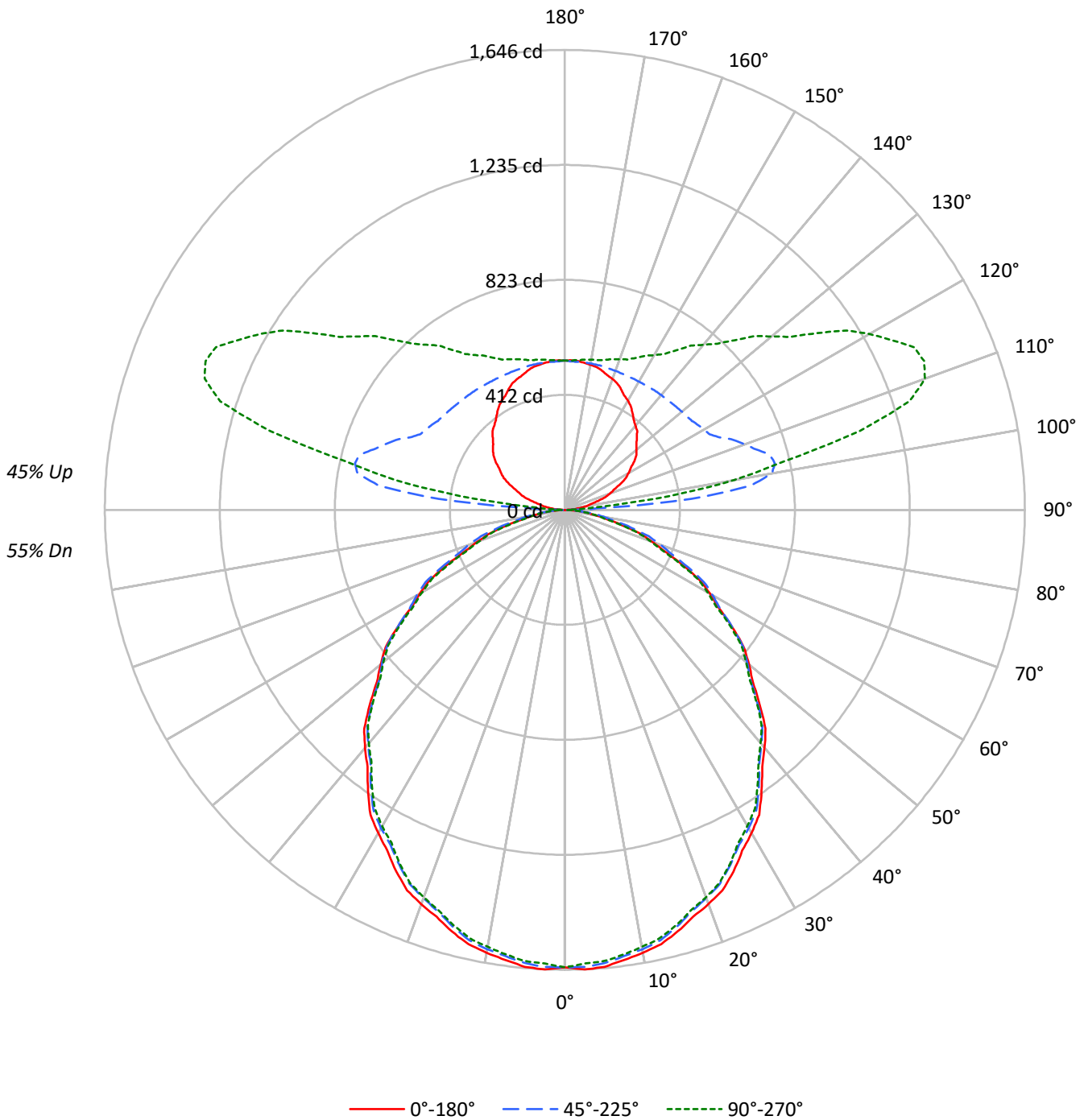
Lumens per Lamp: N/A
Luminaire Lumens: 7638.6 lumens
Efficiency: N/A
Efficacy: 111.2 lumens/watt
Spacing Criteria (0/90/45): 1.22 / 1.19 / 1.31
Luminous Opening: Rectangular (W 0.29' x L: 4' x H: 0')
CIE Type: General Diffuse

Input Watts (W): 68.7
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	108	108	108	108	100	100	100	100	86	86	86	73	73	73	60	60	60	55
1	99	95	91	87	92	88	85	82	76	73	71	64	62	61	53	52	51	46
2	90	83	77	71	83	77	72	67	66	62	59	56	53	51	47	45	43	39
3	82	73	65	60	76	68	61	56	59	54	49	50	46	43	42	39	37	33
4	75	64	57	50	70	60	53	48	52	47	42	44	40	37	37	34	32	28
5	69	57	49	43	64	54	46	41	47	41	36	40	36	32	34	30	28	25
6	64	52	43	38	59	48	41	36	42	36	32	36	32	28	31	27	24	22
7	59	47	39	33	55	44	36	31	38	32	28	33	28	25	28	24	22	19
8	55	42	35	29	51	40	33	28	35	29	25	30	26	22	26	22	19	17
9	51	39	31	26	47	36	30	25	32	26	22	28	23	20	24	20	18	15
10	48	36	28	23	44	33	27	22	29	24	20	26	21	18	22	19	16	14

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	15105	15105	15105
5°	15203	15082	15016
10°	15081	14960	14878
15°	14922	14756	14701
20°	14743	14516	14488
25°	14537	14273	14229
30°	14230	14015	13923
35°	13825	13631	13550
40°	13394	13186	13134
45°	12873	12705	12647
50°	12340	12236	12153
55°	11763	11763	11578
60°	11046	11260	10859
65°	10108	10612	9857
70°	8910	9768	8678
75°	7611	8741	7404
80°	5903	7359	5977
85°	3822	5653	5039



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	154.2	2.0
10°-20°	435.3	5.7
20°-30°	645.6	8.5
30°-40°	755.4	9.9
40°-50°	752.1	9.8
50°-60°	649.5	8.5
60°-70°	467.5	6.1
70°-80°	245.2	3.2
80°-90°	61.9	0.8
90°-100°	250.2	3.3
100°-110°	690.9	9.0
110°-120°	712.5	9.3
120°-130°	572.6	7.5
130°-140°	450.0	5.9
140°-150°	345.1	4.5
150°-160°	248.0	3.2
160°-170°	151.7	2.0
170°-180°	51.1	0.7
0°-30°	1235.0	16.2
0°-40°	1990.5	26.1
0°-60°	3392.0	44.4
0°-90°	4166.5	54.5
90°-120°	1653.6	21.6
90°-150°	3021.2	39.6
90°-180°	3472.0	45.5
0°-180°	7638.6	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1637	1637	1637	1637	1637	
5°	1642	1623	1628	1624	1621	155
15°	1562	1542	1545	1542	1539	440
25°	1428	1404	1402	1394	1398	657
35°	1228	1211	1210	1199	1203	767
45°	987	978	974	971	969	761
55°	731	730	731	721	720	653
65°	463	477	486	467	452	459
75°	214	233	245	229	208	229
85°	36	47	53	50	48	48
90°	2	3	7	8	8	4
95°	37	135	454	187	121	39
105°	123	190	760	1160	1093	131
115°	221	267	612	1212	1378	217
125°	303	344	555	939	1102	269
135°	364	404	540	761	858	282
145°	422	452	533	648	697	264
155°	476	492	528	581	599	219
165°	516	522	531	552	556	145
175°	534	535	532	540	538	51
180°	534	534	534	534	534	

TEST NUMBER: P564998

CATALOG NUMBER: SQ4-PW1-100U-125D-940-1D-UNV-STD-W-4

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1637.2	1637.2	1637.2	1637.2	1637.2
2.5°	1646.4	1632.9	1637.2	1633.5	1625.6
5°	1641.5	1623.2	1628.5	1624.1	1621.3
7.5°	1624.8	1607.9	1611.8	1607.1	1605.5
10°	1609.8	1592.9	1596.8	1591.0	1588.1
12.5°	1592.5	1574.4	1578.3	1572.5	1570.8
15°	1562.2	1542.4	1544.9	1541.9	1539.1
17.5°	1527.0	1507.0	1507.4	1502.7	1502.2
20°	1501.6	1480.4	1478.5	1472.8	1475.6
22.5°	1473.9	1451.6	1449.7	1441.7	1445.6
25°	1428.0	1404.1	1402.1	1393.5	1397.7
27.5°	1374.9	1351.3	1351.3	1339.3	1343.8
30°	1335.7	1313.1	1315.5	1301.2	1306.9
32.5°	1294.2	1273.9	1275.1	1260.8	1266.5
35°	1227.5	1210.6	1210.2	1198.8	1203.0
37.5°	1159.4	1144.5	1142.1	1135.5	1136.7
40°	1112.1	1099.4	1094.8	1090.5	1090.5
42.5°	1062.5	1050.9	1046.4	1043.2	1042.0
45°	986.6	978.2	973.7	970.7	969.3
47.5°	911.6	903.7	899.8	897.8	896.3
50°	859.7	854.1	852.5	848.1	846.7
52.5°	807.8	804.4	802.9	797.4	795.9
55°	731.3	729.9	731.3	721.2	719.8
57.5°	651.7	654.0	658.6	645.0	641.6
60°	598.6	604.3	610.2	594.2	588.5
62.5°	544.4	553.4	561.7	543.3	535.4
65°	463.0	477.1	486.1	467.0	451.5
67.5°	384.6	402.0	412.8	392.2	374.7
70°	330.3	350.1	362.1	341.4	321.7
72.5°	283.0	305.0	314.7	295.3	275.5
75°	213.5	233.2	245.2	228.9	207.7
77.5°	151.5	170.1	180.0	165.8	148.3
80°	111.1	130.8	138.5	126.6	112.5
82.5°	78.8	95.1	100.4	93.3	83.7
85°	36.1	47.3	53.4	50.4	47.6
87.5°	9.6	17.8	23.3	23.5	24.8
90°	1.7	3.4	6.8	7.7	8.5
92.5°	15.4	63.9	114.2	41.7	32.5
95°	36.8	135.4	454.0	186.6	121.4
97.5°	60.9	151.7	672.5	517.8	375.0
100°	78.7	161.4	753.2	758.6	616.4
102.5°	95.8	172.5	769.0	937.3	802.5
105°	123.1	190.0	760.1	1160.4	1092.7
107.5°	152.2	211.7	717.7	1268.0	1292.7
110°	172.7	226.2	684.8	1291.1	1371.4

TEST NUMBER: P564998

CATALOG NUMBER: SQ4-PW1-100U-125D-940-1D-UNV-STD-W-4

CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	191.2	242.7	654.1	1272.9	1391.2
115°	220.6	266.6	612.2	1211.9	1378.2
117.5°	246.2	292.0	584.6	1126.0	1315.3
120°	263.3	308.5	573.7	1067.9	1258.5
122.5°	279.8	322.9	564.8	1013.7	1194.2
125°	302.7	344.5	554.9	939.1	1102.1
127.5°	322.2	364.0	549.1	876.0	1016.6
130°	335.2	377.0	546.3	837.4	965.3
132.5°	347.5	387.3	543.6	805.0	920.8
135°	364.2	403.5	539.5	760.6	857.6
137.5°	383.0	418.8	537.4	723.3	806.1
140°	393.3	428.4	536.1	698.5	771.2
142.5°	404.9	437.4	534.7	676.4	740.4
145°	422.4	451.6	532.7	647.5	696.8
147.5°	439.1	464.7	530.8	623.1	661.4
150°	451.4	472.3	530.1	608.6	639.5
152.5°	461.0	480.6	529.4	596.2	621.7
155°	476.2	492.1	528.4	581.0	599.3
157.5°	490.2	502.5	528.6	569.9	582.4
160°	498.5	509.3	529.2	563.6	572.8
162.5°	505.3	514.8	529.9	558.1	565.3
165°	515.6	522.2	530.9	551.6	555.7
167.5°	523.4	527.4	531.8	547.6	548.9
170°	527.5	530.9	531.8	545.5	545.5
172.5°	530.9	533.0	531.8	542.7	542.1
175°	534.4	535.2	531.8	539.5	537.8
177.5°	535.7	535.1	531.6	536.4	535.0
180°	534.4	534.4	534.4	534.4	534.4

(END OF REPORT)