

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: P564775

Luminaire Tested: **SQ4-PW1-075U-100D-930-1D-UNV-STD-W-6**

Issue Date: 7/30/2021

Test Information

Test Method: LM-79-2019
Report Number: P564775
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-100D-930-1D-UNV-STD-W-6
Description: CORELITE SQ4 SUSPENDED LED LUMINAIRE WITH PERCEIVE WAVES CONTINUOUS LENS.
DOWNLIGHT 1000 LUMENS PER FOOT
UPLIGHT 750 LUMENS PER FOOT
Light Source: 3000K CCT, 90 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

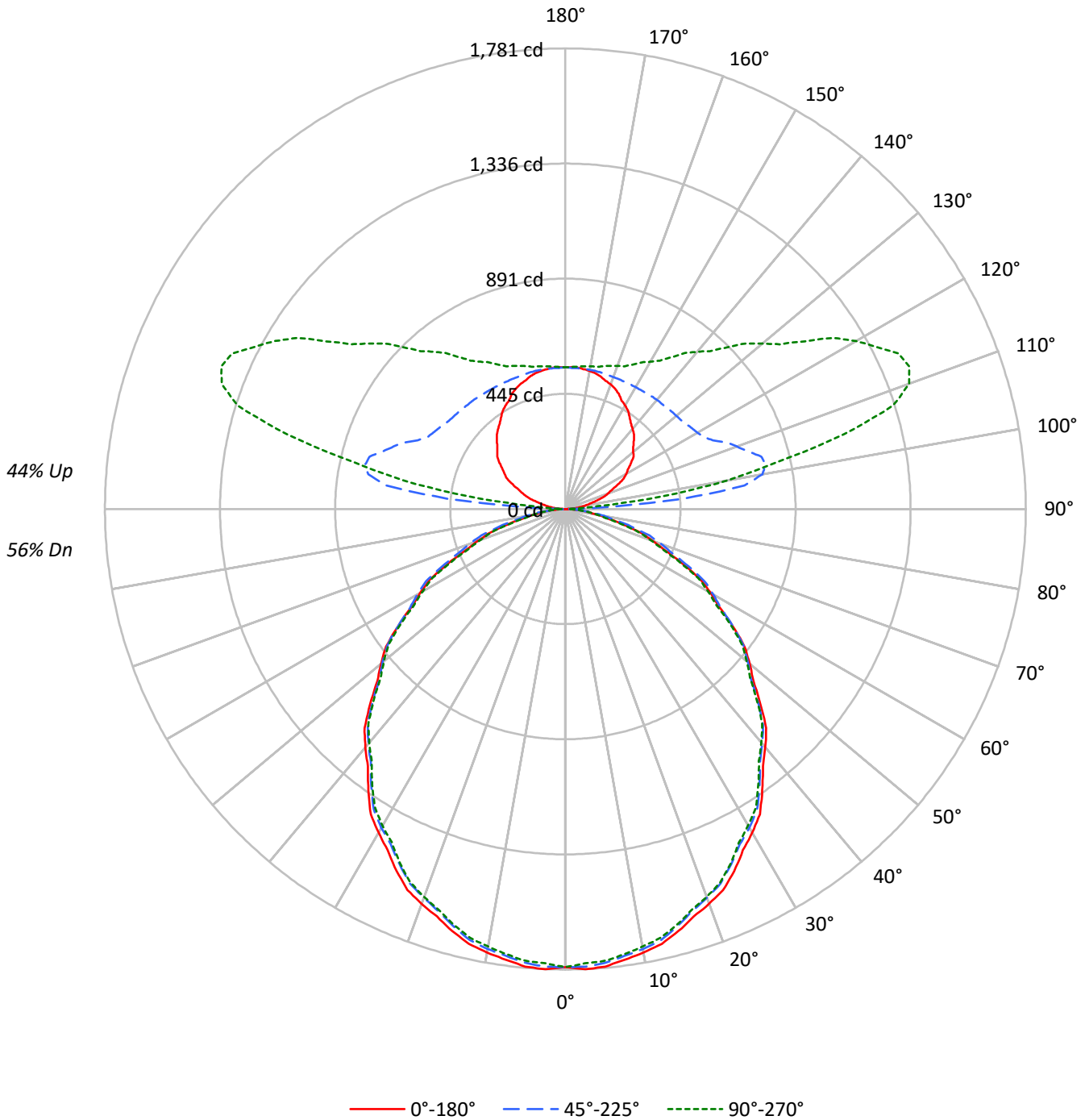
Lumens per Lamp: N/A
Luminaire Lumens: 8081.8 lumens
Efficiency: N/A
Efficacy: 97.5 lumens/watt
Spacing Criteria (0/90/45): 1.22 / 1.19 / 1.31
Luminous Opening: Rectangular (W 0.29' x L: 6' x H: 0')
CIE Type: General Diffuse

Input Watts (W): 82.9
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	109	109	109	109	101	101	101	101	87	87	87	73	73	73	61	61	61	56
1	99	95	91	88	92	88	85	82	76	74	71	65	63	61	55	53	52	47
2	90	83	77	72	84	77	72	67	67	63	59	57	54	51	48	46	44	40
3	83	73	66	60	76	68	62	56	59	54	50	51	47	44	43	40	38	34
4	76	65	57	51	70	60	53	48	52	47	43	45	41	37	38	35	32	29
5	69	58	49	43	64	54	47	41	47	41	37	40	36	32	34	31	28	25
6	64	52	44	38	59	49	41	36	42	37	32	37	32	28	31	28	25	22
7	59	47	39	33	55	44	37	32	38	33	28	33	29	25	29	25	22	20
8	55	43	35	29	51	40	33	28	35	29	25	30	26	23	26	23	20	18
9	51	39	31	26	48	37	30	25	32	27	23	28	24	20	24	21	18	16
10	48	36	28	24	44	34	27	22	30	24	20	26	21	18	22	19	16	14

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	10896	10896	10896
5°	10966	10879	10831
10°	10878	10791	10732
15°	10763	10644	10604
20°	10635	10471	10451
25°	10486	10295	10263
30°	10264	10109	10043
35°	9973	9832	9773
40°	9662	9512	9474
45°	9286	9164	9123
50°	8901	8826	8766
55°	8486	8486	8352
60°	7968	8122	7834
65°	7292	7655	7110
70°	6427	7044	6258
75°	5490	6305	5340
80°	4258	5306	4311
85°	2752	4072	3634



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	166.8	2.1
10°-20°	470.9	5.8
20°-30°	698.6	8.6
30°-40°	817.4	10.1
40°-50°	813.7	10.1
50°-60°	702.7	8.7
60°-70°	505.8	6.3
70°-80°	265.2	3.3
80°-90°	67.2	0.8
90°-100°	258.7	3.2
100°-110°	711.8	8.8
110°-120°	734.7	9.1
120°-130°	588.6	7.3
130°-140°	462.3	5.7
140°-150°	354.3	4.4
150°-160°	254.7	3.2
160°-170°	155.8	1.9
170°-180°	52.5	0.6
0°-30°	1336.3	16.5
0°-40°	2153.7	26.6
0°-60°	3670.1	45.4
0°-90°	4508.3	55.8
90°-120°	1705.2	21.1
90°-150°	3110.5	38.5
90°-180°	3573.0	44.2
0°-180°	8081.8	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1771	1771	1771	1771	1771	
5°	1776	1756	1762	1757	1754	168
15°	1690	1669	1672	1668	1665	476
25°	1545	1519	1517	1508	1512	710
35°	1328	1310	1309	1297	1302	830
45°	1068	1058	1054	1050	1049	824
55°	791	790	791	780	779	706
65°	501	516	526	505	488	496
75°	231	252	265	248	225	248
85°	39	51	58	55	52	51
90°	1	5	8	10	10	4
95°	38	141	458	196	125	41
105°	127	196	784	1194	1115	134
115°	225	274	629	1253	1422	222
125°	310	354	571	965	1131	277
135°	375	416	554	781	884	289
145°	433	463	546	665	717	272
155°	490	506	543	598	615	225
165°	530	537	545	567	571	149
175°	548	550	546	553	552	52
180°	548	548	548	548	548	

TEST NUMBER: P564775

CATALOG NUMBER: SQ4-PW1-075U-100D-930-1D-UNV-STD-W-6

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1771.4	1771.4	1771.4	1771.4	1771.4
2.5°	1781.4	1766.7	1771.4	1767.5	1758.9
5°	1776.1	1756.2	1762.0	1757.3	1754.2
7.5°	1758.0	1739.7	1743.9	1738.9	1737.1
10°	1741.7	1723.4	1727.7	1721.4	1718.3
12.5°	1723.0	1703.5	1707.7	1701.4	1699.6
15°	1690.2	1668.9	1671.5	1668.3	1665.3
17.5°	1652.2	1630.5	1630.9	1625.9	1625.3
20°	1624.7	1601.8	1599.7	1593.6	1596.6
22.5°	1594.7	1570.6	1568.5	1559.9	1564.1
25°	1545.1	1519.2	1517.0	1507.7	1512.3
27.5°	1487.7	1462.0	1462.1	1449.1	1454.0
30°	1445.2	1420.8	1423.4	1407.9	1414.0
32.5°	1400.3	1378.3	1379.7	1364.2	1370.3
35°	1328.2	1309.8	1309.4	1297.1	1301.6
37.5°	1254.5	1238.3	1235.8	1228.6	1229.8
40°	1203.3	1189.6	1184.6	1179.9	1179.9
42.5°	1149.6	1137.1	1132.1	1128.7	1127.5
45°	1067.5	1058.4	1053.5	1050.3	1048.8
47.5°	986.4	977.8	973.6	971.3	969.8
50°	930.2	924.1	922.4	917.7	916.1
52.5°	874.0	870.3	868.7	862.7	861.2
55°	791.3	789.8	791.3	780.3	778.8
57.5°	705.1	707.6	712.6	697.9	694.2
60°	647.7	653.8	660.2	642.9	636.8
62.5°	589.0	598.8	607.7	587.9	579.3
65°	501.0	516.2	526.0	505.3	488.5
67.5°	416.1	435.0	446.7	424.4	405.5
70°	357.4	378.8	391.7	369.4	348.0
72.5°	306.2	330.0	340.5	319.5	298.1
75°	231.0	252.3	265.3	247.6	224.7
77.5°	163.9	184.0	194.8	179.4	160.4
80°	120.2	141.5	149.8	137.0	121.7
82.5°	85.2	102.9	108.6	100.9	90.5
85°	39.0	51.2	57.7	54.6	51.5
87.5°	10.2	19.5	25.4	25.9	27.1
90°	1.2	4.6	8.2	10.5	10.5
92.5°	16.1	68.8	119.3	45.8	37.6
95°	38.5	141.2	457.5	195.6	124.9
97.5°	62.8	156.6	698.2	537.9	379.5
100°	80.5	166.1	773.8	781.0	637.2
102.5°	97.3	177.4	793.4	969.0	837.0
105°	127.2	195.7	784.3	1194.5	1114.6
107.5°	155.7	218.2	739.7	1304.9	1328.6
110°	176.2	233.3	706.1	1332.4	1414.5

TEST NUMBER: P564775

CATALOG NUMBER: SQ4-PW1-075U-100D-930-1D-UNV-STD-W-6

CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	194.9	250.1	672.5	1314.7	1439.7
115°	225.2	274.3	629.1	1252.6	1421.5
117.5°	254.2	299.4	601.5	1165.6	1356.6
120°	271.9	315.3	589.4	1100.4	1297.8
122.5°	287.8	331.2	581.0	1043.2	1230.6
125°	310.4	353.8	570.7	965.4	1130.9
127.5°	331.9	373.2	563.9	900.6	1045.7
130°	343.1	385.3	560.2	862.0	994.4
132.5°	356.2	398.4	557.4	828.1	947.7
135°	374.6	415.7	554.4	780.8	883.5
137.5°	391.9	430.0	551.8	742.6	827.2
140°	405.0	440.4	550.9	717.2	793.6
142.5°	416.2	448.8	549.0	694.5	760.0
145°	433.0	462.7	546.2	665.2	716.6
147.5°	451.0	476.5	544.8	639.3	680.4
150°	462.2	485.0	543.9	625.1	657.1
152.5°	472.4	493.4	542.9	612.9	639.3
155°	490.2	506.2	542.7	597.9	615.1
157.5°	503.0	516.0	542.7	585.7	597.6
160°	512.4	522.6	542.7	579.1	588.2
162.5°	519.8	528.3	543.6	573.4	580.7
165°	529.9	536.7	545.0	567.3	570.7
167.5°	536.9	542.1	546.2	562.1	563.0
170°	541.5	545.0	546.2	560.2	560.2
172.5°	545.3	546.9	546.2	557.4	556.5
175°	548.5	549.7	546.2	553.2	552.0
177.5°	549.5	549.5	545.7	551.3	549.5
180°	548.5	548.5	548.5	548.5	548.5

(END OF REPORT)