

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: P564583

Luminaire Tested: **SQ4-PW1-025U-100D-930-1D-UNV-STD-W-6**

Issue Date: 7/30/2021

Test Information

Test Method: LM-79-2019
Report Number: P564583
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-930-1D-UNV-STD-W-6
Description: CORELITE SQ4 SUSPENDED LED LUMINAIRE WITH PERCEIVE WAVES CONTINUOUS LENS.
DOWNLIGHT 1000 LUMENS PER FOOT
UPLIGHT 250 LUMENS PER FOOT
Light Source: 3000K CCT, 90 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

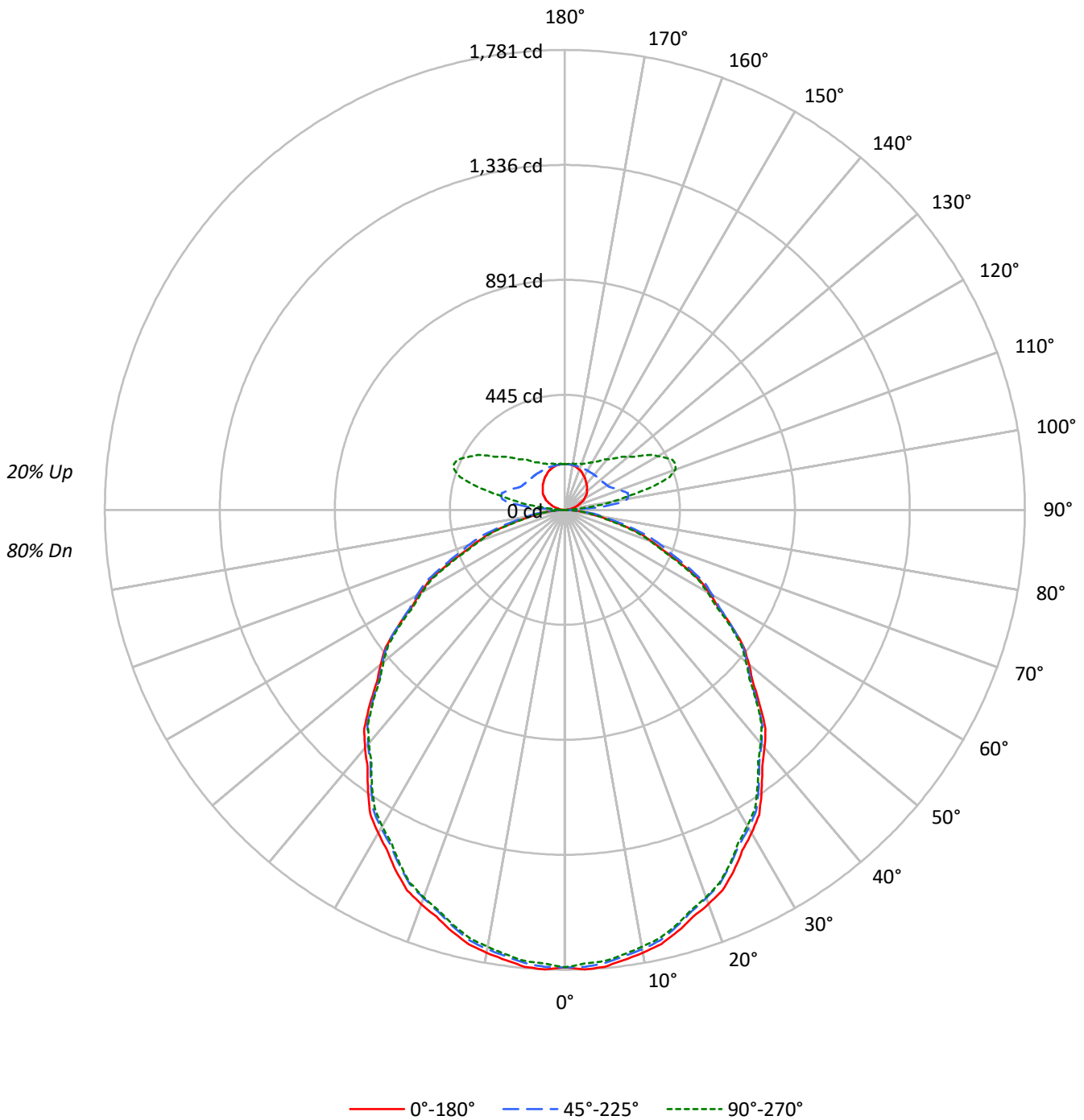
Lumens per Lamp: N/A
Luminaire Lumens: 5660.8 lumens
Efficiency: N/A
Efficacy: 89.1 lumens/watt
Spacing Criteria (0/90/45): 1.22 / 1.19 / 1.31
Luminous Opening: Rectangular (W 0.29' x L: 6' x H: 0')
CIE Type: Semi-Direct

Input Watts (W): 63.5
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	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°	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	2.9
10°-20°	470.9	8.3
20°-30°	698.6	12.3
30°-40°	817.4	14.4
40°-50°	813.7	14.4
50°-60°	702.7	12.4
60°-70°	505.8	8.9
70°-80°	265.2	4.7
80°-90°	66.7	1.2
90°-100°	86.7	1.5
100°-110°	227.9	4.0
110°-120°	236.3	4.2
120°-130°	189.6	3.3
130°-140°	148.7	2.6
140°-150°	114.2	2.0
150°-160°	82.2	1.5
160°-170°	50.3	0.9
170°-180°	17.0	0.3
0°-30°	1336.3	23.6
0°-40°	2153.7	38.0
0°-60°	3670.1	64.8
0°-90°	4507.9	79.6
90°-120°	551.0	9.7
90°-150°	1003.4	17.7
90°-180°	1153.0	20.4
0°-180°	5660.8	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	3	9	5	5	2
95°	11	45	149	77	52	13
105°	41	62	252	382	357	43
115°	73	89	202	403	460	72
125°	102	114	184	310	366	90
135°	121	133	178	250	284	94
145°	140	149	176	214	230	88
155°	158	163	176	193	198	73
165°	171	173	176	182	185	48
175°	178	178	177	179	179	17
180°	178	178	178	178	178	



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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	19.2	25.5	24.7	25.9
90°	1.1	3.4	9.1	4.6	4.6
92.5°	4.8	23.1	51.1	22.6	14.6
95°	11.4	44.9	149.4	77.0	52.5
97.5°	19.8	49.3	223.5	177.7	130.9
100°	26.2	53.0	246.3	249.6	193.8
102.5°	31.7	56.7	252.7	310.9	263.2
105°	41.0	62.2	252.0	382.5	356.9
107.5°	50.6	70.3	237.6	419.8	426.0
110°	57.0	74.9	225.8	429.3	456.1

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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	63.4	80.3	214.8	423.3	464.3
115°	73.0	88.6	201.8	402.7	459.5
117.5°	82.3	96.6	192.9	374.1	437.2
120°	87.8	101.2	189.3	354.9	416.2
122.5°	93.3	106.7	186.5	335.7	396.1
125°	101.5	113.7	183.6	310.3	366.0
127.5°	108.1	120.6	181.1	289.8	336.8
130°	111.7	125.1	180.2	276.9	320.4
132.5°	115.4	128.8	179.2	265.9	304.9
135°	120.9	133.1	177.9	250.5	283.9
137.5°	126.6	138.6	177.7	238.9	266.4
140°	131.1	142.3	176.7	229.8	255.4
142.5°	134.8	145.0	176.7	223.3	245.4
145°	140.3	149.2	175.6	213.6	230.3
147.5°	145.7	154.4	175.6	205.6	219.4
150°	149.4	157.2	175.6	200.9	212.1
152.5°	153.0	159.0	175.6	197.2	205.7
155°	158.5	163.0	175.6	192.8	198.4
157.5°	162.6	166.8	175.6	188.9	192.9
160°	165.3	168.7	175.6	187.1	189.3
162.5°	168.1	170.5	175.6	185.2	187.5
165°	171.0	173.3	175.6	182.5	184.7
167.5°	173.8	174.9	176.7	181.3	182.2
170°	175.6	176.7	176.7	181.3	181.3
172.5°	176.5	176.7	176.7	180.4	179.5
175°	177.9	177.9	176.7	179.0	179.0
177.5°	177.9	177.9	177.0	178.8	177.9
180°	177.9	177.9	177.9	177.9	177.9

(END OF REPORT)