

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: P519857

Luminaire Tested: **SQ4-F-025U-100D-940-1D-UNV-STD-W-6**

Issue Date: 4/29/2021

Test Information

Test Method: LM-79-2019
Report Number: P519857
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1910-536-32, G3-1910-536-19)
Test Lab: INNOVATION CENTER
Issue Date: 4/29/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: CORELITE
Catalog Number: SQ4-F-025U-100D-940-1D-UNV-STD-W-6
Description: CORELITE SQ4 SUSPENDED LED LUMINAIRE
DOWNLIGHT 1000 LUMENS PER FOOT
UPLIGHT 250 LUMENS PER FOOT
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

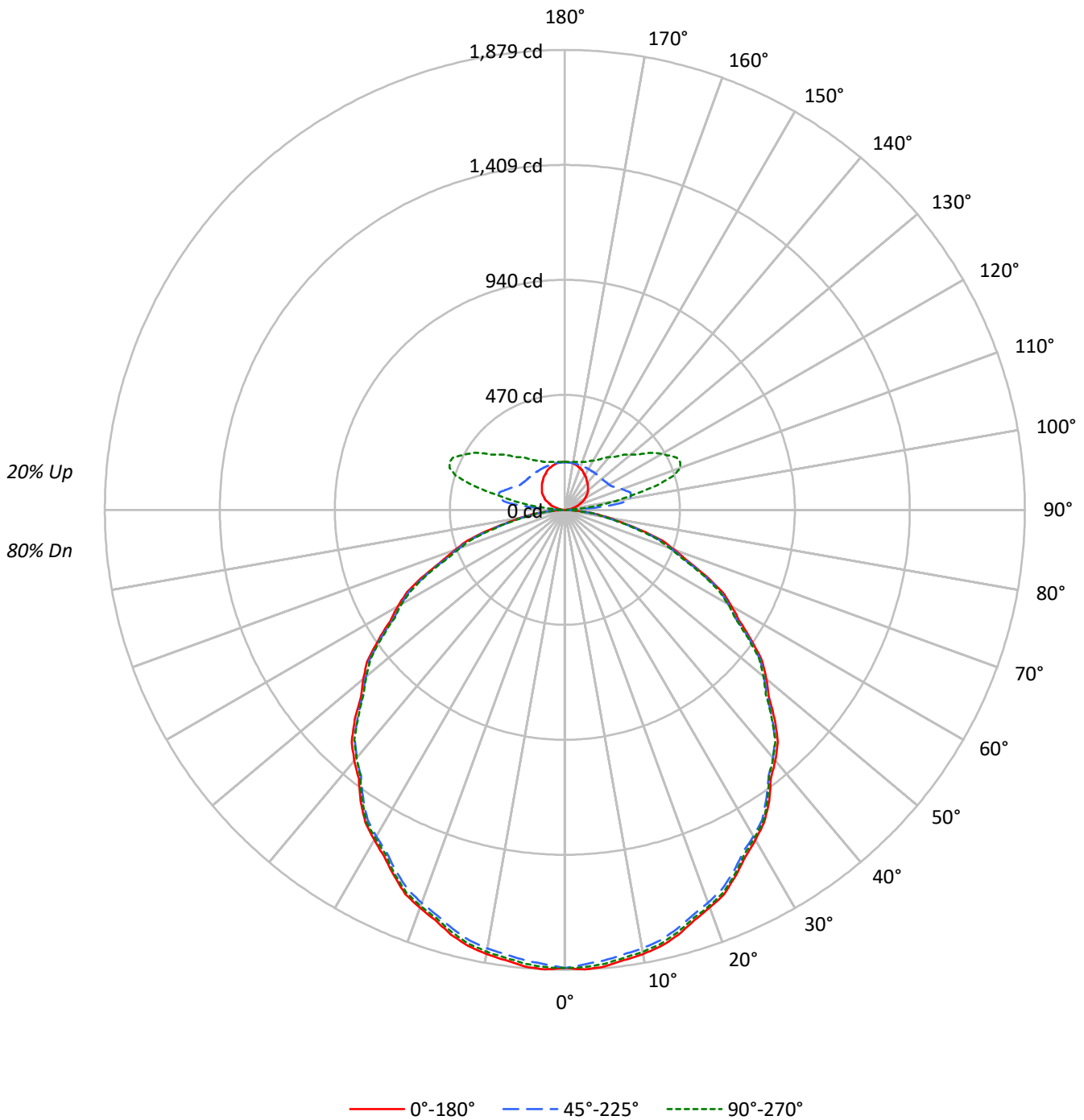
Lumens per Lamp: N/A
Luminaire Lumens: 6371.9 lumens
Efficiency: N/A
Efficacy: 106.2 lumens/watt
Spacing Criteria (0/90/45): 1.24 / 1.24 / 1.35
Luminous Opening: Rectangular (W 0.29' x L: 6' x H: 0')
CIE Type: Semi-Direct

Input Watts (W): 60
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	92	92	92	84	84	84	80
1	105	100	96	92	100	96	92	89	88	85	82	81	79	76	74	72	71	67
2	95	87	81	75	91	84	78	73	77	72	68	71	67	64	65	62	59	56
3	87	77	69	63	83	74	66	61	68	62	57	63	58	54	58	54	50	48
4	79	68	59	53	76	65	58	52	60	54	49	56	50	46	51	47	43	41
5	73	61	52	46	69	58	50	44	54	47	42	50	44	40	46	42	38	35
6	67	54	46	40	64	52	45	39	49	42	37	45	39	35	42	37	33	31
7	62	49	41	35	59	48	40	34	44	37	33	41	35	31	38	33	29	27
8	58	45	37	31	55	43	36	30	40	34	29	38	32	28	35	30	26	24
9	54	41	33	28	52	40	32	27	37	31	26	35	29	25	32	27	24	22
10	51	38	30	25	48	37	29	25	34	28	24	32	27	23	30	25	22	20

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	11514	11514	11514
5°	11566	11408	11495
10°	11507	11363	11451
15°	11438	11282	11372
20°	11320	11185	11277
25°	11196	11065	11153
30°	11060	10941	10996
35°	10921	10786	10843
40°	10739	10616	10625
45°	10550	10404	10372
50°	10279	10156	10131
55°	9975	9866	9796
60°	9673	9498	9467
65°	9200	8994	8919
70°	8549	8341	8179
75°	7633	7388	7236
80°	6280	6053	5781
85°	3719	4086	4171



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	176.7	2.8
10°-20°	503.1	7.9
20°-30°	755.6	11.9
30°-40°	901.7	14.2
40°-50°	924.3	14.5
50°-60°	823.1	12.9
60°-70°	613.5	9.6
70°-80°	332.2	5.2
80°-90°	76.7	1.2
90°-100°	95.1	1.5
100°-110°	250.1	3.9
110°-120°	259.3	4.1
120°-130°	208.0	3.3
130°-140°	163.2	2.6
140°-150°	125.3	2.0
150°-160°	90.2	1.4
160°-170°	55.2	0.9
170°-180°	18.6	0.3
0°-30°	1435.4	22.5
0°-40°	2337.1	36.7
0°-60°	4084.4	64.1
0°-90°	5106.8	80.1
90°-120°	604.5	9.5
90°-150°	1101.0	17.3
90°-180°	1265.0	19.9
0°-180°	6371.9	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1872	1872	1872	1872	1872	
5°	1873	1870	1848	1864	1862	178
15°	1796	1790	1772	1786	1786	506
25°	1650	1646	1630	1640	1643	760
35°	1454	1448	1436	1439	1444	908
45°	1213	1207	1196	1190	1192	933
55°	930	932	920	911	914	833
65°	632	630	618	612	613	625
75°	321	318	311	304	304	342
85°	53	58	58	59	59	74
90°	1	4	10	5	5	2
95°	12	49	164	84	58	14
105°	45	68	276	420	392	48
115°	80	97	222	442	504	79
125°	111	125	201	340	402	99
135°	133	146	195	275	312	103
145°	154	164	193	234	253	96
155°	174	179	193	212	218	80
165°	188	190	193	200	203	53
175°	195	195	194	196	196	19
180°	195	195	195	195	195	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1872.0	1872.0	1872.0	1872.0	1872.0
2.5°	1879.2	1875.1	1858.6	1872.0	1869.9
5°	1873.2	1869.5	1847.6	1864.2	1861.7
7.5°	1855.8	1852.0	1832.6	1848.1	1845.8
10°	1842.4	1838.7	1819.3	1834.7	1833.4
12.5°	1825.0	1821.2	1801.8	1817.3	1816.0
15°	1796.2	1789.9	1771.8	1785.9	1785.9
17.5°	1758.1	1753.4	1736.5	1748.4	1748.6
20°	1729.4	1725.6	1708.8	1721.7	1722.9
22.5°	1700.5	1696.8	1678.0	1689.8	1692.1
25°	1649.7	1646.0	1630.4	1639.5	1643.3
27.5°	1597.3	1591.8	1576.5	1584.5	1587.3
30°	1557.2	1554.7	1540.5	1544.4	1548.2
32.5°	1515.1	1512.6	1500.4	1502.4	1509.1
35°	1454.4	1448.1	1436.4	1439.1	1444.1
37.5°	1382.7	1379.7	1368.3	1366.9	1371.7
40°	1337.5	1332.5	1322.1	1319.6	1323.3
42.5°	1288.2	1283.1	1270.7	1268.3	1273.0
45°	1212.9	1206.6	1196.1	1189.8	1192.4
47.5°	1128.5	1128.5	1117.7	1110.4	1114.2
50°	1074.2	1074.2	1061.3	1054.9	1058.7
52.5°	1017.6	1018.6	1004.7	1001.3	1000.1
55°	930.2	931.5	920.0	911.0	913.5
57.5°	846.0	843.2	829.7	823.9	825.2
60°	786.3	782.6	772.1	763.3	769.6
62.5°	725.7	723.9	713.6	703.6	702.8
65°	632.1	629.7	618.0	611.6	612.8
67.5°	539.1	536.1	525.5	516.3	519.6
70°	475.4	475.4	463.8	458.6	454.8
72.5°	416.8	411.8	403.2	395.9	393.2
75°	321.2	317.5	310.9	304.5	304.5
77.5°	233.8	230.6	226.4	221.9	220.8
80°	177.3	176.1	170.9	169.4	163.2
82.5°	124.8	124.6	121.6	118.2	117.9
85°	52.7	57.7	57.9	59.1	59.1
87.5°	9.5	16.1	16.4	13.4	13.4
90°	1.2	3.7	10.0	5.0	5.0
92.5°	5.3	25.3	56.0	24.9	16.1
95°	12.5	49.2	163.9	84.5	57.5
97.5°	21.8	54.1	245.3	195.0	143.7
100°	28.8	58.1	270.2	273.9	212.7
102.5°	34.8	62.2	277.3	341.1	288.8
105°	45.0	68.2	276.5	419.8	391.6
107.5°	55.5	77.0	260.8	460.6	467.4
110°	62.5	82.1	247.8	471.1	500.5



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	69.6	88.1	235.7	464.5	509.5
115°	80.1	97.2	221.5	441.8	504.2
117.5°	90.3	106.0	211.7	410.4	479.7
120°	96.4	111.1	207.7	389.4	456.7
122.5°	102.4	117.0	204.6	368.4	434.6
125°	111.4	124.8	201.4	340.5	401.7
127.5°	118.6	132.3	198.7	318.0	369.6
130°	122.6	137.3	197.7	303.9	351.6
132.5°	126.7	141.3	196.7	291.7	334.6
135°	132.7	146.1	195.2	274.8	311.5
137.5°	138.9	152.1	194.9	262.2	292.3
140°	143.9	156.1	193.9	252.2	280.3
142.5°	147.9	159.2	193.9	245.1	269.3
145°	153.9	163.6	192.7	234.4	252.7
147.5°	159.9	169.5	192.7	225.6	240.7
150°	163.9	172.4	192.7	220.5	232.8
152.5°	167.9	174.5	192.7	216.4	225.7
155°	173.9	178.8	192.7	211.6	217.7
157.5°	178.5	183.0	192.7	207.3	211.7
160°	181.4	185.1	192.7	205.2	207.7
162.5°	184.4	187.2	192.7	203.2	205.7
165°	187.6	190.1	192.7	200.3	202.7
167.5°	190.7	191.9	193.9	199.0	200.0
170°	192.7	193.9	193.9	198.9	198.9
172.5°	193.7	193.9	193.9	198.0	196.9
175°	195.2	195.2	193.9	196.4	196.4
177.5°	195.2	195.2	194.2	196.1	195.2
180°	195.2	195.2	195.2	195.2	195.2

(END OF REPORT)