

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: P519853

Luminaire Tested: **SQ4-F-025U-100D-935-1D-UNV-STD-W-6**

Issue Date: 4/29/2021

Test Information

Test Method: LM-79-2019
Report Number: P519853
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-935-1D-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

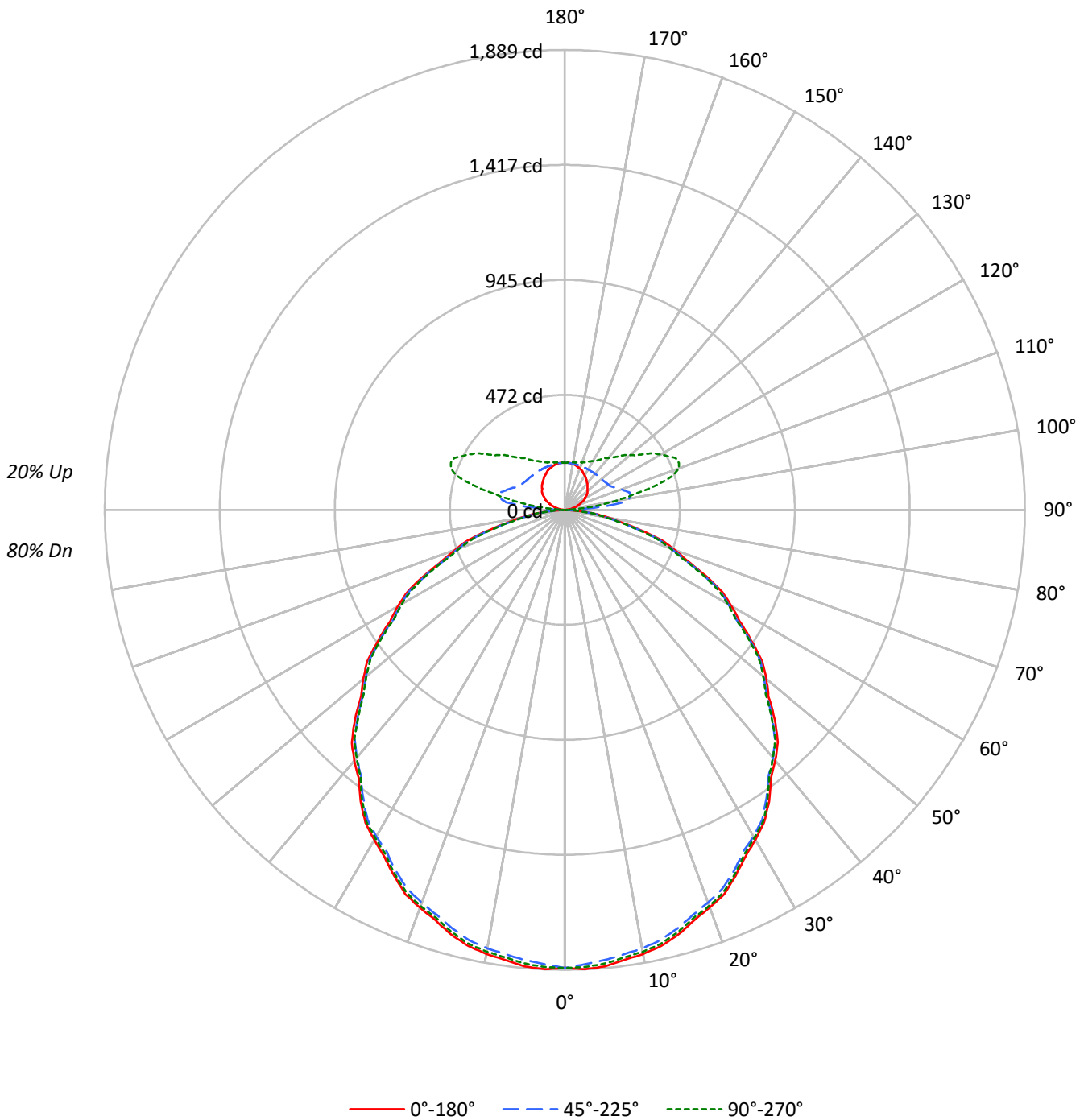
Lumens per Lamp: N/A
Luminaire Lumens: 6391.7 lumens
Efficiency: N/A
Efficacy: 106.5 lumens/watt
Spacing Criteria (0/90/45): 1.24 / 1.24 / 1.35
Luminous Opening: Rectangular (W 0.29' x L: 6' x H: 0')
CIE Type: Semi-Direct

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	83	81	79	77	74	73	71	68
2	95	87	81	75	91	84	78	73	77	72	68	71	67	64	65	62	60	56
3	87	77	69	63	83	74	67	61	68	62	57	63	58	54	58	54	51	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	70	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	38	33	41	35	31	38	33	30	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	28	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°	11573	11573	11573
5°	11626	11466	11553
10°	11566	11421	11510
15°	11496	11340	11430
20°	11377	11242	11336
25°	11253	11121	11210
30°	11116	10997	11052
35°	10977	10840	10900
40°	10794	10669	10680
45°	10604	10458	10424
50°	10331	10207	10182
55°	10025	9915	9846
60°	9722	9547	9515
65°	9246	9040	8965
70°	8593	8384	8222
75°	7671	7427	7274
80°	6312	6082	5809
85°	3733	4107	4192



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	177.6	2.8
10°-20°	505.7	7.9
20°-30°	759.4	11.9
30°-40°	906.3	14.2
40°-50°	929.0	14.5
50°-60°	827.2	12.9
60°-70°	616.7	9.6
70°-80°	333.9	5.2
80°-90°	77.0	1.2
90°-100°	94.7	1.5
100°-110°	248.8	3.9
110°-120°	258.1	4.0
120°-130°	207.0	3.2
130°-140°	162.4	2.5
140°-150°	124.6	2.0
150°-160°	89.8	1.4
160°-170°	54.9	0.9
170°-180°	18.6	0.3
0°-30°	1442.7	22.6
0°-40°	2349.0	36.8
0°-60°	4105.2	64.2
0°-90°	5132.8	80.3
90°-120°	601.5	9.4
90°-150°	1095.6	17.1
90°-180°	1259.0	19.7
0°-180°	6391.7	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1882	1882	1882	1882	1882	
5°	1883	1879	1857	1874	1871	179
15°	1805	1799	1781	1795	1795	509
25°	1658	1654	1639	1648	1652	764
35°	1462	1456	1444	1446	1452	913
45°	1219	1213	1202	1196	1198	938
55°	935	936	925	916	918	837
65°	635	633	621	615	616	628
75°	323	319	312	306	306	344
85°	53	58	58	59	59	74
90°	1	4	10	5	5	2
95°	12	49	163	84	57	14
105°	45	68	275	418	390	47
115°	80	97	220	440	502	79
125°	111	124	200	339	400	98
135°	132	145	194	274	310	102
145°	153	163	192	233	252	96
155°	173	178	192	211	217	80
165°	187	189	192	199	202	53
175°	194	194	193	196	196	18
180°	194	194	194	194	194	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1881.6	1881.6	1881.6	1881.6	1881.6
2.5°	1888.8	1884.7	1868.1	1881.5	1879.5
5°	1882.9	1879.0	1857.0	1873.7	1871.2
7.5°	1865.2	1861.5	1842.0	1857.5	1855.2
10°	1851.8	1848.1	1828.6	1844.0	1842.8
12.5°	1834.3	1830.4	1811.0	1826.5	1825.2
15°	1805.4	1799.0	1780.8	1795.0	1795.0
17.5°	1767.1	1762.3	1745.4	1757.3	1757.5
20°	1738.2	1734.4	1717.5	1730.5	1731.8
22.5°	1709.3	1705.5	1686.6	1698.5	1700.7
25°	1658.1	1654.4	1638.7	1647.8	1651.7
27.5°	1605.4	1599.9	1584.5	1592.5	1595.3
30°	1565.1	1562.6	1548.4	1552.3	1556.1
32.5°	1522.8	1520.2	1508.0	1510.0	1516.9
35°	1461.9	1455.5	1443.7	1446.5	1451.6
37.5°	1389.8	1386.8	1375.4	1373.9	1378.6
40°	1344.3	1339.3	1328.8	1326.3	1330.1
42.5°	1294.7	1289.7	1277.2	1274.7	1279.4
45°	1219.1	1212.8	1202.3	1195.9	1198.4
47.5°	1134.4	1134.4	1123.5	1116.1	1119.9
50°	1079.6	1079.6	1066.7	1060.3	1064.1
52.5°	1022.7	1023.8	1009.8	1006.5	1005.2
55°	934.9	936.2	924.6	915.6	918.2
57.5°	850.2	847.5	834.0	828.0	829.3
60°	790.3	786.5	776.1	767.2	773.5
62.5°	729.3	727.6	717.3	707.2	706.4
65°	635.3	632.8	621.1	614.7	616.0
67.5°	541.9	538.8	528.2	519.0	522.3
70°	477.8	477.8	466.2	460.9	457.2
72.5°	418.9	413.9	405.2	397.9	395.1
75°	322.8	319.0	312.5	306.1	306.1
77.5°	235.0	231.8	227.5	223.1	221.8
80°	178.2	177.0	171.7	170.3	164.0
82.5°	125.5	125.2	122.2	118.8	118.5
85°	52.9	58.0	58.2	59.4	59.4
87.5°	9.5	16.2	16.5	13.5	13.5
90°	1.2	3.6	9.9	5.0	5.0
92.5°	5.3	25.2	55.8	24.7	16.0
95°	12.4	48.9	163.1	84.0	57.3
97.5°	21.7	53.8	244.0	194.0	142.9
100°	28.7	57.8	269.0	272.5	211.6
102.5°	34.6	61.8	275.9	339.4	287.3
105°	44.8	68.0	275.2	417.7	389.7
107.5°	55.2	76.7	259.5	458.3	465.1
110°	62.2	81.7	246.5	468.8	498.0



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	69.2	87.7	234.6	462.2	507.0
115°	79.7	96.7	220.4	439.7	501.7
117.5°	89.9	105.4	210.7	408.4	477.4
120°	95.9	110.5	206.7	387.5	454.4
122.5°	101.8	116.4	203.7	366.6	432.5
125°	110.8	124.2	200.4	338.8	399.6
127.5°	118.0	131.6	197.7	316.4	367.8
130°	122.1	136.6	196.7	302.3	349.8
132.5°	126.0	140.6	195.8	290.3	332.9
135°	132.0	145.4	194.2	273.5	310.0
137.5°	138.2	151.3	193.9	260.9	290.9
140°	143.2	155.3	193.0	250.9	278.9
142.5°	147.2	158.4	193.0	243.8	267.9
145°	153.1	162.9	191.7	233.2	251.5
147.5°	159.2	168.6	191.7	224.4	239.5
150°	163.1	171.7	191.7	219.4	231.6
152.5°	167.1	173.7	191.7	215.4	224.6
155°	173.1	178.0	191.7	210.6	216.6
157.5°	177.5	182.2	191.7	206.3	210.7
160°	180.6	184.2	191.7	204.3	206.7
162.5°	183.5	186.2	191.7	202.3	204.6
165°	186.8	189.2	191.7	199.3	201.7
167.5°	189.7	191.0	193.0	198.0	198.9
170°	191.7	193.0	193.0	198.0	198.0
172.5°	192.7	193.0	193.0	196.9	196.0
175°	194.2	194.2	193.0	195.5	195.5
177.5°	194.2	194.2	193.3	195.2	194.2
180°	194.2	194.2	194.2	194.2	194.2

(END OF REPORT)