

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: P519841

Luminaire Tested: **SQ4-F-025U-100D-835-1D-UNV-STD-W-6**

Issue Date: 4/29/2021

Test Information

Test Method: LM-79-2019
Report Number: P519841
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-835-1D-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

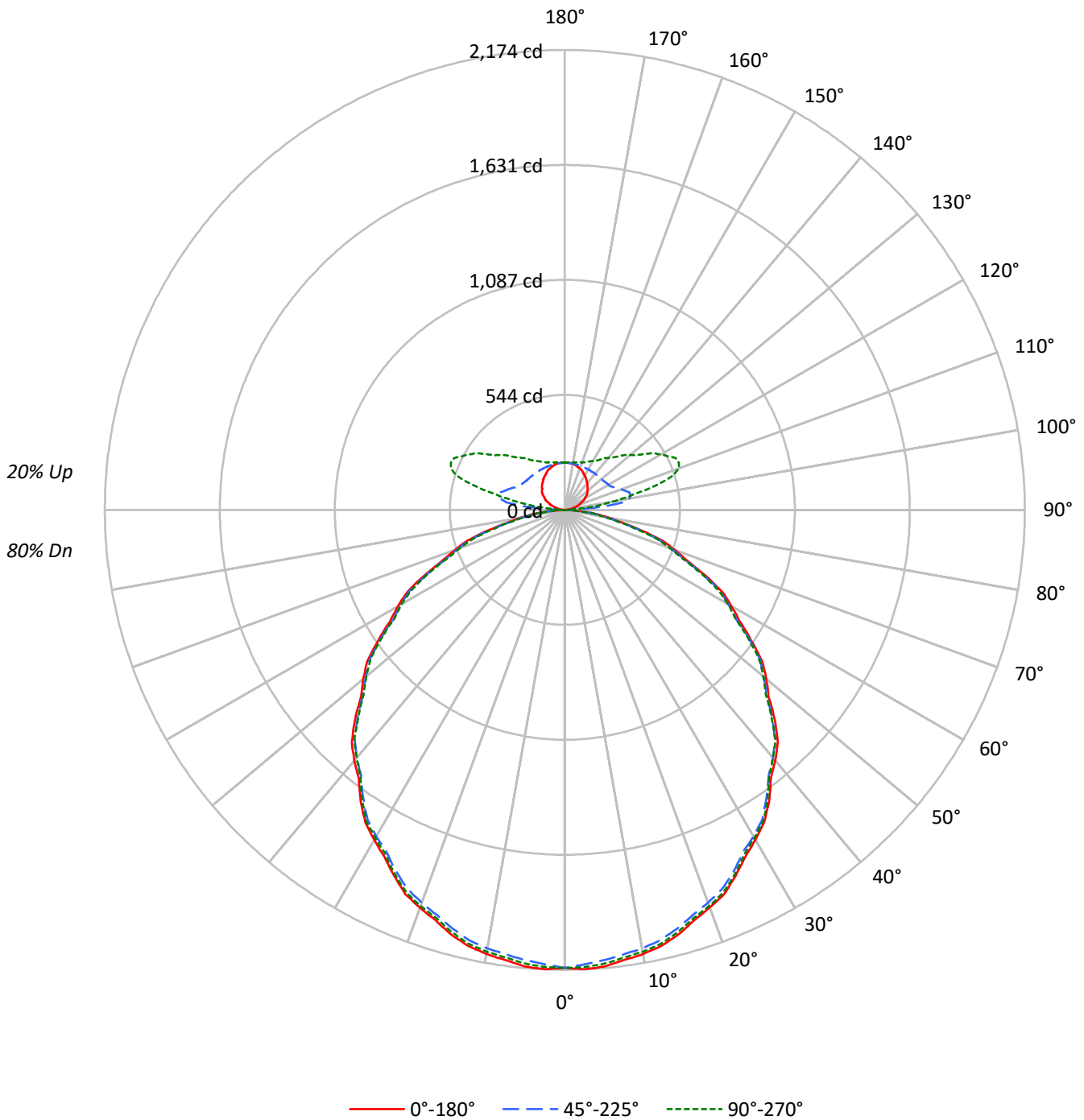
Lumens per Lamp: N/A
Luminaire Lumens: 7356.2 lumens
Efficiency: N/A
Efficacy: 122.6 lumens/watt
Spacing Criteria (0/90/45): 1.24 / 1.24 / 1.35
Luminous Opening: Rectangular (W 0.29' x L: 6' x H: 0')
CIE Type: Semi-Direct

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	50	30	10	0	
RCR																						
0	114	114	114	114	109	109	109	109	100	100	100	92	92	92	84	84	84	84	84	84	80	
1	105	100	96	92	100	96	92	89	88	85	83	81	79	77	74	73	71	71	71	71	68	
2	95	87	81	75	91	84	78	73	77	72	68	71	67	64	65	62	60	60	60	60	56	
3	87	77	69	63	83	74	67	61	68	62	57	63	58	54	58	54	51	51	51	51	48	
4	79	68	59	53	76	65	58	52	60	54	49	56	50	46	51	47	43	43	43	43	41	
5	73	61	52	46	70	58	50	44	54	47	42	50	44	40	46	42	38	38	38	38	35	
6	67	54	46	40	64	52	45	39	49	42	37	45	39	35	42	37	33	33	33	33	31	
7	62	49	41	35	59	48	40	34	44	38	33	41	35	31	38	33	30	30	30	30	27	
8	58	45	37	31	55	43	36	30	40	34	29	38	32	28	35	30	26	26	26	26	24	
9	54	41	33	28	52	40	32	27	37	31	26	35	29	25	32	28	24	24	24	24	22	
10	51	38	30	25	48	37	29	25	34	28	24	32	27	23	30	25	22	22	22	22	20	

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	13319	13319	13319
5°	13379	13196	13297
10°	13311	13144	13246
15°	13231	13051	13155
20°	13094	12939	13045
25°	12951	12800	12901
30°	12793	12656	12720
35°	12633	12477	12543
40°	12423	12279	12291
45°	12204	12036	11997
50°	11889	11747	11719
55°	11539	11411	11332
60°	11190	10988	10952
65°	10642	10405	10317
70°	9889	9648	9461
75°	8831	8548	8370
80°	7265	7003	6687
85°	4298	4721	4827



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	204.4	2.8
10°-20°	582.0	7.9
20°-30°	874.0	11.9
30°-40°	1043.1	14.2
40°-50°	1069.2	14.5
50°-60°	952.1	12.9
60°-70°	709.7	9.6
70°-80°	384.3	5.2
80°-90°	88.7	1.2
90°-100°	108.9	1.5
100°-110°	286.4	3.9
110°-120°	297.0	4.0
120°-130°	238.2	3.2
130°-140°	186.9	2.5
140°-150°	143.5	2.0
150°-160°	103.3	1.4
160°-170°	63.2	0.9
170°-180°	21.4	0.3
0°-30°	1660.4	22.6
0°-40°	2703.5	36.8
0°-60°	4724.7	64.2
0°-90°	5907.4	80.3
90°-120°	692.3	9.4
90°-150°	1261.0	17.1
90°-180°	1449.0	19.7
0°-180°	7356.2	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2165	2165	2165	2165	2165	
5°	2167	2163	2137	2156	2154	205
15°	2078	2070	2050	2066	2066	585
25°	1908	1904	1886	1896	1901	879
35°	1682	1675	1662	1665	1670	1050
45°	1403	1396	1384	1376	1379	1079
55°	1076	1078	1064	1054	1057	963
65°	731	728	715	707	709	723
75°	372	367	360	352	352	396
85°	61	67	67	68	68	85
90°	1	4	12	6	6	3
95°	14	56	188	97	66	16
105°	52	78	317	481	448	55
115°	92	111	254	506	577	91
125°	128	143	231	390	460	113
135°	152	167	224	315	357	118
145°	176	187	221	268	289	110
155°	199	205	221	242	249	92
165°	215	218	221	229	232	61
175°	224	224	222	225	225	21
180°	224	224	224	224	224	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2165.4	2165.4	2165.4	2165.4	2165.4
2.5°	2173.8	2169.1	2150.0	2165.3	2163.1
5°	2166.9	2162.6	2137.2	2156.4	2153.6
7.5°	2146.7	2142.4	2120.0	2137.7	2135.1
10°	2131.3	2126.9	2104.5	2122.3	2120.9
12.5°	2111.0	2106.7	2084.3	2102.1	2100.6
15°	2077.8	2070.5	2049.5	2065.9	2065.9
17.5°	2033.8	2028.2	2008.8	2022.5	2022.8
20°	2000.5	1996.1	1976.7	1991.6	1993.0
22.5°	1967.2	1962.8	1941.0	1954.8	1957.4
25°	1908.3	1904.0	1886.0	1896.5	1900.9
27.5°	1847.7	1841.2	1823.6	1832.9	1836.1
30°	1801.3	1798.4	1782.0	1786.6	1790.9
32.5°	1752.6	1749.7	1735.6	1737.9	1745.7
35°	1682.4	1675.2	1661.6	1664.7	1670.5
37.5°	1599.5	1596.0	1582.8	1581.2	1586.7
40°	1547.2	1541.3	1529.3	1526.5	1530.8
42.5°	1490.1	1484.3	1469.9	1467.0	1472.6
45°	1403.0	1395.8	1383.7	1376.4	1379.2
47.5°	1305.5	1305.5	1293.0	1284.5	1288.9
50°	1242.5	1242.5	1227.6	1220.3	1224.7
52.5°	1177.1	1178.3	1162.2	1158.4	1156.9
55°	1076.0	1077.5	1064.1	1053.8	1056.7
57.5°	978.5	975.4	959.8	953.0	954.5
60°	909.6	905.2	893.2	883.0	890.3
62.5°	839.4	837.3	825.5	813.9	813.0
65°	731.2	728.4	714.9	707.4	708.9
67.5°	623.6	620.2	607.9	597.3	601.0
70°	549.9	549.9	536.5	530.5	526.1
72.5°	482.1	476.3	466.4	458.0	454.8
75°	371.6	367.2	359.7	352.2	352.2
77.5°	270.5	266.7	261.9	256.8	255.3
80°	205.1	203.6	197.7	196.0	188.8
82.5°	144.5	144.2	140.6	136.7	136.4
85°	60.9	66.8	66.9	68.4	68.4
87.5°	11.0	18.5	19.0	15.5	15.5
90°	1.4	4.2	11.5	5.7	5.7
92.5°	6.0	29.0	64.2	28.4	18.4
95°	14.3	56.4	187.7	96.7	66.0
97.5°	24.9	61.9	280.8	223.4	164.5
100°	33.0	66.6	309.5	313.6	243.6
102.5°	39.9	71.2	317.5	390.7	330.7
105°	51.6	78.2	316.7	480.7	448.5
107.5°	63.7	88.3	298.6	527.5	535.4
110°	71.7	94.1	283.7	539.6	573.1



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	79.7	100.9	269.9	531.9	583.5
115°	91.7	111.4	253.6	506.0	577.4
117.5°	103.4	121.4	242.4	470.1	549.4
120°	110.3	127.1	237.9	446.0	523.0
122.5°	117.2	134.0	234.5	421.8	497.8
125°	127.5	142.9	230.7	389.9	460.0
127.5°	135.8	151.5	227.6	364.2	423.3
130°	140.4	157.2	226.4	348.0	402.6
132.5°	145.0	161.8	225.3	334.2	383.2
135°	151.9	167.3	223.6	314.8	356.8
137.5°	159.1	174.2	223.3	300.2	334.7
140°	164.8	178.8	222.1	288.8	321.0
142.5°	169.4	182.3	222.1	280.6	308.4
145°	176.3	187.4	220.7	268.4	289.4
147.5°	183.1	194.0	220.7	258.4	275.7
150°	187.7	197.5	220.7	252.5	266.5
152.5°	192.3	199.9	220.7	247.9	258.5
155°	199.2	204.7	220.7	242.3	249.3
157.5°	204.4	209.6	220.7	237.4	242.4
160°	207.8	212.0	220.7	235.0	237.9
162.5°	211.2	214.3	220.7	232.8	235.6
165°	215.0	217.7	220.7	229.3	232.2
167.5°	218.4	219.8	222.1	227.9	229.0
170°	220.7	222.0	222.1	227.9	227.9
172.5°	221.9	222.1	222.1	226.6	225.6
175°	223.6	223.6	222.1	225.0	225.0
177.5°	223.6	223.6	222.4	224.6	223.6
180°	223.6	223.6	223.6	223.6	223.6

(END OF REPORT)