

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: P520010

Luminaire Tested: **SQ4-F-075U-075D-835-1D-UNV-STD-W-8**

Issue Date: 4/29/2021

Test Information

Test Method: LM-79-2019
Report Number: P520010
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1910-536-22, G3-1910-536-18)
Test Lab: INNOVATION CENTER
Issue Date: 4/29/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: CORELITE
Catalog Number: SQ4-F-075U-075D-835-1D-UNV-STD-W-8
Description: CORELITE SQ4 SUSPENDED LED LUMINAIRE
DOWNLIGHT 750 LUMENS PER FOOT
UPLIGHT 750 LUMENS PER FOOT
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

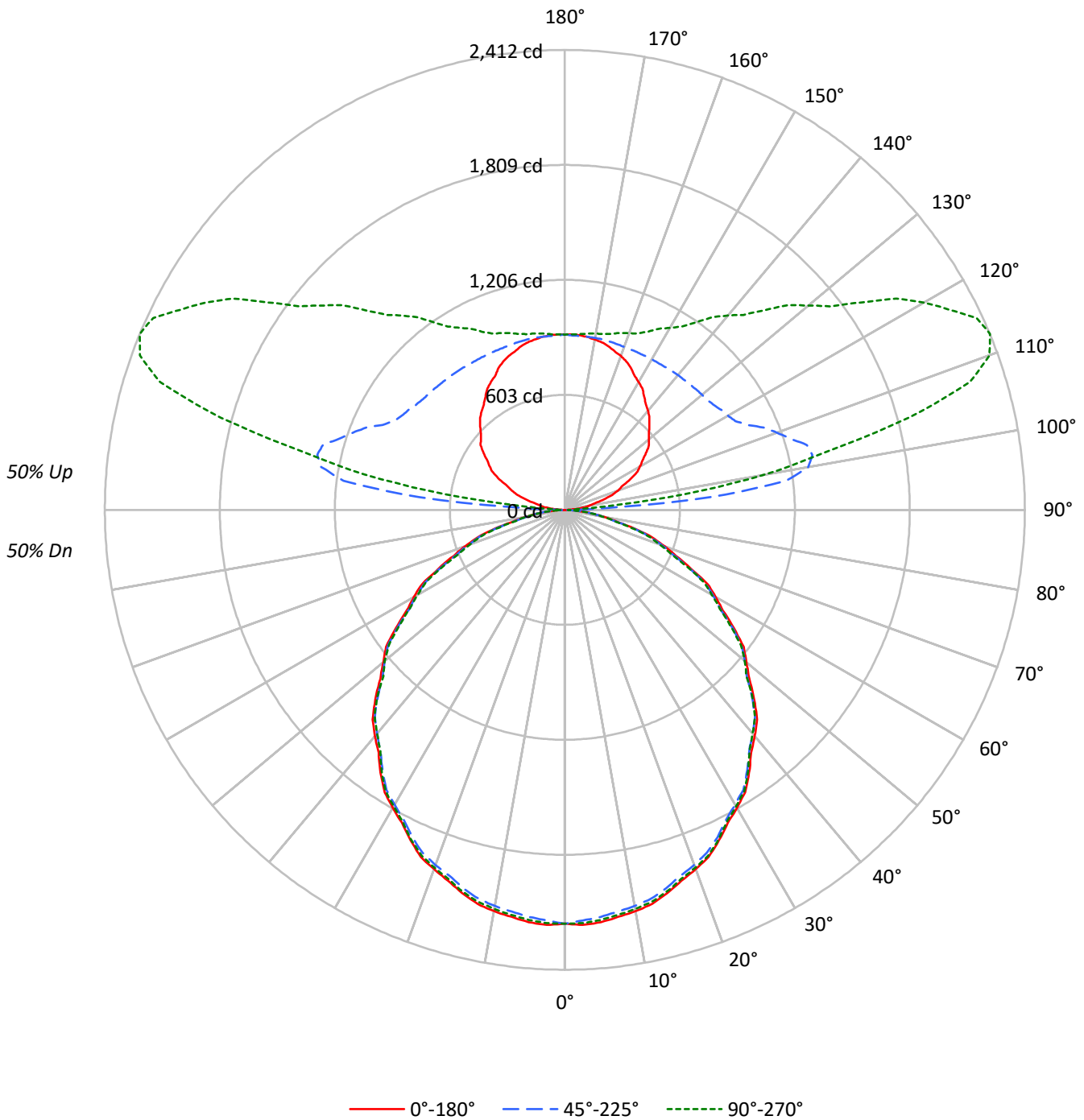
Lumens per Lamp: N/A
Luminaire Lumens: 11916.1 lumens
Efficiency: N/A
Efficacy: 132.1 lumens/watt
Spacing Criteria (0/90/45): 1.24 / 1.24 / 1.35
Luminous Opening: Rectangular (W 0.29' x L: 8' x H: 0')
CIE Type: General Diffuse

Input Watts (W): 90.2
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	107	107	107	107	99	99	99	99	83	83	83	69	69	69	56	56	56	50
1	98	93	89	86	90	86	83	80	73	71	68	61	59	57	49	48	47	42
2	89	81	75	70	82	75	70	65	64	60	56	53	50	48	43	41	40	35
3	81	72	64	58	74	66	60	55	56	51	47	47	43	40	38	36	34	29
4	74	63	55	49	68	59	52	46	50	44	40	42	38	34	34	31	29	25
5	68	56	48	42	62	52	45	40	45	39	35	37	33	30	31	28	25	22
6	63	50	42	36	57	47	40	34	40	34	30	34	29	26	28	25	22	19
7	58	45	37	32	53	42	35	30	36	31	26	31	26	23	25	22	20	17
8	54	41	33	28	49	38	31	27	33	27	23	28	24	20	23	20	17	15
9	50	38	30	25	46	35	28	24	30	25	21	26	21	18	21	18	16	14
10	47	34	27	22	43	32	26	21	28	23	19	24	20	17	20	17	14	12

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	10014	10014	10014
5°	10052	9925	9998
10°	10012	9883	9957
15°	9935	9813	9897
20°	9845	9729	9807
25°	9737	9637	9707
30°	9614	9509	9561
35°	9487	9388	9432
40°	9327	9233	9221
45°	9167	9052	9078
50°	8913	8842	8842
55°	8706	8595	8516
60°	8425	8281	8208
65°	7971	7820	7713
70°	7486	7300	7115
75°	6736	6490	6349
80°	5385	5281	5228
85°	3229	3647	3753



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	204.9	1.7
10°-20°	583.3	4.9
20°-30°	876.4	7.4
30°-40°	1045.8	8.8
40°-50°	1072.5	9.0
50°-60°	955.6	8.0
60°-70°	712.5	6.0
70°-80°	386.4	3.2
80°-90°	91.1	0.8
90°-100°	433.5	3.6
100°-110°	1192.7	10.0
110°-120°	1231.0	10.3
120°-130°	986.3	8.3
130°-140°	774.7	6.5
140°-150°	593.7	5.0
150°-160°	426.8	3.6
160°-170°	261.0	2.2
170°-180°	88.0	0.7
0°-30°	1664.6	14.0
0°-40°	2710.4	22.7
0°-60°	4738.5	39.8
0°-90°	5928.6	49.8
90°-120°	2857.1	24.0
90°-150°	5211.8	43.7
90°-180°	5988.0	50.3
0°-180°	11916.1	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2171	2171	2171	2171	2171	
5°	2171	2167	2143	2161	2159	206
15°	2080	2076	2055	2070	2072	587
25°	1913	1911	1893	1903	1907	881
35°	1685	1681	1667	1667	1675	1052
45°	1405	1399	1388	1388	1392	1082
55°	1082	1080	1069	1059	1059	967
65°	730	730	716	708	707	727
75°	378	370	364	358	356	397
85°	61	65	69	69	71	85
90°	2	8	14	18	18	6
95°	65	237	767	328	209	68
105°	213	328	1314	2001	1868	225
115°	378	460	1054	2099	2382	372
125°	520	593	956	1618	1895	464
135°	628	696	929	1308	1480	484
145°	726	775	915	1115	1201	455
155°	821	848	909	1002	1030	377
165°	888	899	913	950	956	250
175°	919	921	915	927	925	87
180°	919	919	919	919	919	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2170.8	2170.8	2170.8	2170.8	2170.8
2.5°	2178.7	2174.1	2155.1	2170.8	2169.3
5°	2170.8	2167.0	2143.3	2161.0	2159.0
7.5°	2153.1	2148.9	2125.6	2143.3	2142.9
10°	2137.4	2131.6	2109.8	2127.5	2125.6
12.5°	2116.9	2111.1	2089.4	2107.1	2105.1
15°	2080.3	2076.5	2054.7	2070.5	2072.4
17.5°	2038.6	2031.3	2011.8	2027.2	2029.1
20°	2005.5	1999.7	1981.9	1995.7	1997.6
22.5°	1970.9	1965.1	1947.3	1961.0	1963.0
25°	1913.0	1911.0	1893.3	1903.3	1907.1
27.5°	1850.4	1845.0	1830.7	1838.3	1842.2
30°	1804.8	1800.9	1785.1	1791.1	1794.9
32.5°	1757.5	1755.3	1741.0	1743.9	1749.3
35°	1684.7	1680.9	1667.0	1667.2	1674.9
37.5°	1604.0	1599.8	1588.3	1586.4	1589.5
40°	1548.9	1543.1	1533.2	1531.2	1531.2
42.5°	1492.2	1488.0	1474.9	1471.5	1476.1
45°	1405.2	1399.4	1387.5	1387.6	1391.5
47.5°	1311.2	1308.9	1295.0	1288.7	1290.3
50°	1241.9	1245.7	1232.0	1224.4	1232.0
52.5°	1182.1	1179.8	1167.5	1159.7	1162.8
55°	1082.5	1080.5	1068.7	1058.8	1058.8
57.5°	982.5	977.5	965.2	957.8	963.6
60°	913.2	911.2	897.5	883.8	889.6
62.5°	843.9	840.5	826.6	817.7	821.9
65°	730.2	730.2	716.4	708.5	706.6
67.5°	630.6	621.3	613.7	604.1	601.5
70°	555.0	547.3	541.2	533.3	527.5
72.5°	481.0	476.4	467.2	459.4	458.2
75°	377.9	370.2	364.1	358.2	356.2
77.5°	268.8	267.3	261.8	258.6	259.8
80°	202.7	202.7	198.8	198.8	196.8
82.5°	142.9	144.5	143.7	140.5	140.1
85°	61.0	64.8	68.9	68.9	70.9
87.5°	11.4	20.3	20.1	20.9	20.9
90°	2.0	7.7	13.7	17.6	17.6
92.5°	27.0	115.3	199.8	76.8	63.0
95°	64.6	236.6	766.6	327.8	209.2
97.5°	105.2	262.3	1169.8	901.3	636.0
100°	135.0	278.4	1296.5	1308.6	1067.7
102.5°	163.1	297.3	1329.4	1623.6	1402.5
105°	213.1	327.9	1314.1	2001.3	1867.5
107.5°	260.9	365.6	1239.4	2186.4	2226.2
110°	295.3	390.9	1183.1	2232.5	2370.1



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	326.6	419.1	1126.8	2202.8	2412.3
115°	377.5	459.6	1054.0	2098.8	2381.8
117.5°	425.9	501.7	1007.9	1953.0	2273.1
120°	455.6	528.3	987.5	1843.8	2174.6
122.5°	482.2	554.9	973.4	1748.0	2061.9
125°	520.2	592.8	956.2	1617.6	1894.9
127.5°	556.2	625.4	945.0	1508.9	1752.2
130°	574.9	645.7	938.7	1444.3	1666.1
132.5°	596.8	667.6	934.0	1387.5	1587.9
135°	627.8	696.5	928.9	1308.2	1480.4
137.5°	656.7	720.5	924.6	1244.2	1386.1
140°	678.5	737.8	923.1	1201.6	1329.8
142.5°	697.3	752.1	919.9	1163.7	1273.4
145°	725.5	775.3	915.2	1114.7	1200.7
147.5°	755.6	798.4	912.9	1071.2	1140.1
150°	774.4	812.6	911.3	1047.5	1101.0
152.5°	791.6	826.8	909.7	1026.9	1071.2
155°	821.3	848.1	909.4	1001.9	1030.5
157.5°	842.8	864.7	909.4	981.3	1001.2
160°	858.5	875.7	909.4	970.3	985.6
162.5°	871.0	885.1	910.9	960.8	973.0
165°	887.8	899.3	913.3	950.5	956.2
167.5°	899.6	908.4	915.2	941.8	943.4
170°	907.4	913.1	915.2	938.7	938.7
172.5°	913.7	916.3	915.2	933.9	932.4
175°	919.1	921.0	915.2	926.9	925.0
177.5°	920.7	920.7	914.4	923.7	920.7
180°	919.1	919.1	919.1	919.1	919.1

(END OF REPORT)