

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: P520058

Luminaire Tested: **SQ4-F-075U-125D-835-1D-UNV-STD-W-8**

Issue Date: 4/29/2021

Test Information

Test Method: LM-79-2019
Report Number: P520058
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1910-536-22, G3-1910-536-20)
Test Lab: INNOVATION CENTER
Issue Date: 4/29/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: CORELITE
Catalog Number: SQ4-F-075U-125D-835-1D-UNV-STD-W-8
Description: CORELITE SQ4 SUSPENDED LED LUMINAIRE
DOWNLIGHT 1250 LUMENS PER FOOT
UPLIGHT 750 LUMENS PER FOOT
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

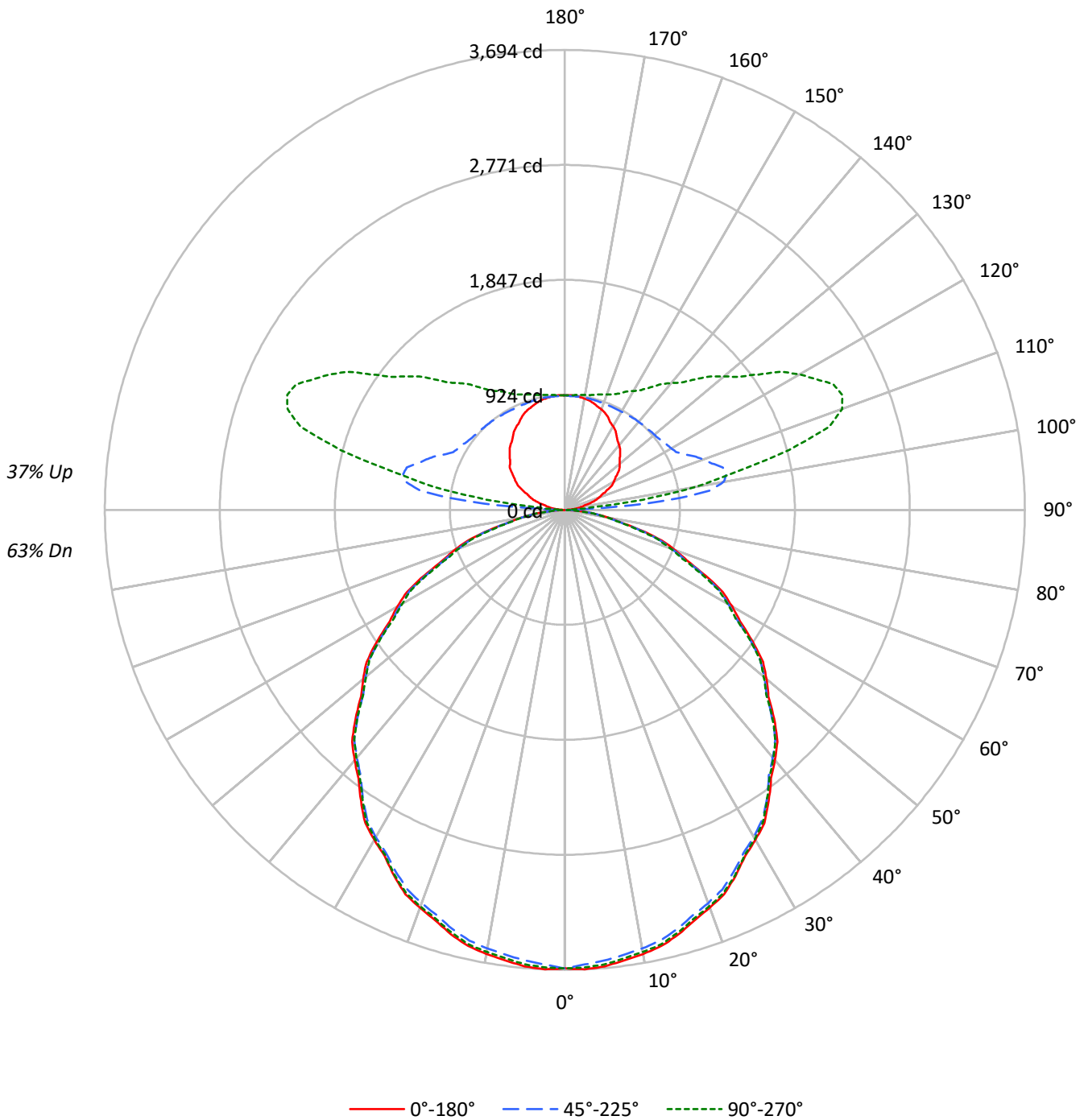
Lumens per Lamp: N/A
Luminaire Lumens: 16038.6 lumens
Efficiency: N/A
Efficacy: 128.2 lumens/watt
Spacing Criteria (0/90/45): 1.24 / 1.24 / 1.35
Luminous Opening: Rectangular (W 0.29' x L: 8' x H: 0')
CIE Type: Semi-Direct

Input Watts (W): 125.1
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



TEST NUMBER: P520058
CATALOG NUMBER: SQ4-F-075U-125D-835-1D-UNV-STD-W-8

Luminous Intensity Polar Plot





TEST NUMBER: P520058

CATALOG NUMBER: SQ4-F-075U-125D-835-1D-UNV-STD-W-8

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	110	110	110	110	103	103	103	103	90	90	90	79	79	79	68	68	68	63
1	101	96	92	89	94	90	87	84	79	77	74	69	67	66	60	59	57	53
2	92	84	78	72	86	79	73	69	69	65	61	61	57	55	53	50	48	44
3	83	74	66	60	78	69	63	57	61	56	52	54	49	46	47	43	41	37
4	76	65	57	51	71	61	54	48	54	48	44	48	43	39	41	38	35	32
5	70	58	50	44	65	55	47	42	49	42	38	43	38	34	37	34	30	27
6	65	52	44	38	60	49	42	36	44	38	33	39	34	30	34	30	27	24
7	60	47	39	33	56	45	37	32	40	34	29	35	30	26	31	27	24	21
8	55	43	35	29	52	41	33	28	36	30	26	32	27	24	28	24	21	19
9	52	39	31	26	48	37	30	25	33	27	23	30	25	21	26	22	19	17
10	48	36	28	24	45	34	27	23	31	25	21	27	23	19	24	20	17	15

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	16991	16991	16991
5°	17046	16830	16971
10°	16968	16759	16892
15°	16854	16651	16787
20°	16698	16509	16638
25°	16508	16333	16467
30°	16304	16164	16250
35°	16073	15936	15947
40°	15808	15637	15685
45°	15512	15340	15366
50°	15173	14999	14955
55°	14786	14575	14542
60°	14307	13989	13914
65°	13564	13275	13099
70°	12631	12304	12139
75°	11236	10983	10659
80°	9155	8886	8830
85°	5473	6224	6224



TEST NUMBER: P520058

CATALOG NUMBER: SQ4-F-075U-125D-835-1D-UNV-STD-W-8

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	347.5	2.2
10°-20°	989.7	6.2
20°-30°	1487.0	9.3
30°-40°	1774.2	11.1
40°-50°	1818.6	11.3
50°-60°	1621.0	10.1
60°-70°	1206.7	7.5
70°-80°	653.8	4.1
80°-90°	152.4	1.0
90°-100°	433.5	2.7
100°-110°	1192.7	7.4
110°-120°	1231.0	7.7
120°-130°	986.3	6.1
130°-140°	774.7	4.8
140°-150°	593.7	3.7
150°-160°	426.8	2.7
160°-170°	261.0	1.6
170°-180°	88.0	0.5
0°-30°	2824.2	17.6
0°-40°	4598.5	28.7
0°-60°	8038.1	50.1
0°-90°	10051.0	62.7
90°-120°	2857.1	17.8
90°-150°	5211.8	32.5
90°-180°	5988.0	37.3
0°-180°	16038.6	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	3683	3683	3683	3683	3683	
5°	3681	3675	3634	3667	3665	349
15°	3529	3521	3486	3517	3515	995
25°	3243	3237	3209	3227	3235	1494
35°	2854	2852	2830	2830	2832	1785
45°	2378	2372	2351	2348	2355	1832
55°	1838	1832	1812	1798	1808	1642
65°	1243	1235	1216	1208	1200	1230
75°	630	630	616	604	598	669
85°	103	117	118	120	118	143
90°	2	8	14	18	18	7
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	

TEST NUMBER: P520058

CATALOG NUMBER: SQ4-F-075U-125D-835-1D-UNV-STD-W-8

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	3683.1	3683.1	3683.1	3683.1	3683.1
2.5°	3694.5	3688.1	3655.6	3683.0	3678.3
5°	3681.1	3675.1	3634.5	3666.9	3664.9
7.5°	3649.9	3642.4	3605.3	3635.6	3632.0
10°	3622.3	3616.3	3577.7	3608.1	3606.1
12.5°	3588.3	3582.3	3543.7	3574.1	3573.7
15°	3529.1	3521.2	3486.5	3516.9	3514.9
17.5°	3458.1	3449.0	3414.7	3438.8	3442.7
20°	3401.4	3395.4	3362.9	3385.3	3389.2
22.5°	3343.0	3335.5	3301.2	3326.9	3330.8
25°	3243.3	3237.3	3208.8	3227.2	3235.1
27.5°	3133.8	3133.8	3107.4	3120.5	3125.3
30°	3060.8	3060.8	3034.5	3042.8	3050.7
32.5°	2983.0	2976.6	2951.8	2958.5	2966.4
35°	2854.1	2852.0	2829.7	2829.7	2831.8
37.5°	2720.7	2715.1	2690.7	2692.5	2702.0
40°	2625.0	2621.1	2596.6	2596.8	2604.7
42.5°	2527.7	2523.8	2502.6	2499.4	2502.6
45°	2377.7	2371.7	2351.4	2347.5	2355.4
47.5°	2218.0	2219.6	2195.3	2189.7	2194.1
50°	2114.2	2114.2	2089.9	2077.8	2083.8
52.5°	2005.5	2002.4	1978.0	1964.5	1978.4
55°	1838.5	1832.5	1812.2	1798.2	1808.1
57.5°	1667.4	1658.3	1637.8	1622.5	1628.1
60°	1550.7	1536.8	1516.2	1504.2	1508.1
62.5°	1429.1	1421.6	1399.5	1381.0	1389.7
65°	1242.6	1234.7	1216.2	1207.9	1200.0
67.5°	1059.7	1054.6	1033.8	1025.2	1020.0
70°	936.5	926.6	912.2	902.0	900.0
72.5°	816.5	805.0	790.5	781.9	776.8
75°	630.4	630.4	616.2	604.0	598.0
77.5°	453.2	454.9	443.1	439.0	436.2
80°	344.6	344.6	334.5	330.4	332.4
82.5°	240.8	245.6	242.0	236.3	233.5
85°	103.4	117.3	117.6	119.6	117.6
87.5°	18.2	30.5	33.6	31.1	28.0
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

TEST NUMBER: P520058

CATALOG NUMBER: SQ4-F-075U-125D-835-1D-UNV-STD-W-8

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)