

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: P520016

Luminaire Tested: **SQ4-F-075U-075D-930-1D-UNV-STD-W-4**

Issue Date: 4/29/2021

Test Information

Test Method: LM-79-2019
Report Number: P520016
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-930-1D-UNV-STD-W-4
Description: CORELITE SQ4 SUSPENDED LED LUMINAIRE
DOWNLIGHT 750 LUMENS PER FOOT
UPLIGHT 750 LUMENS PER FOOT
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

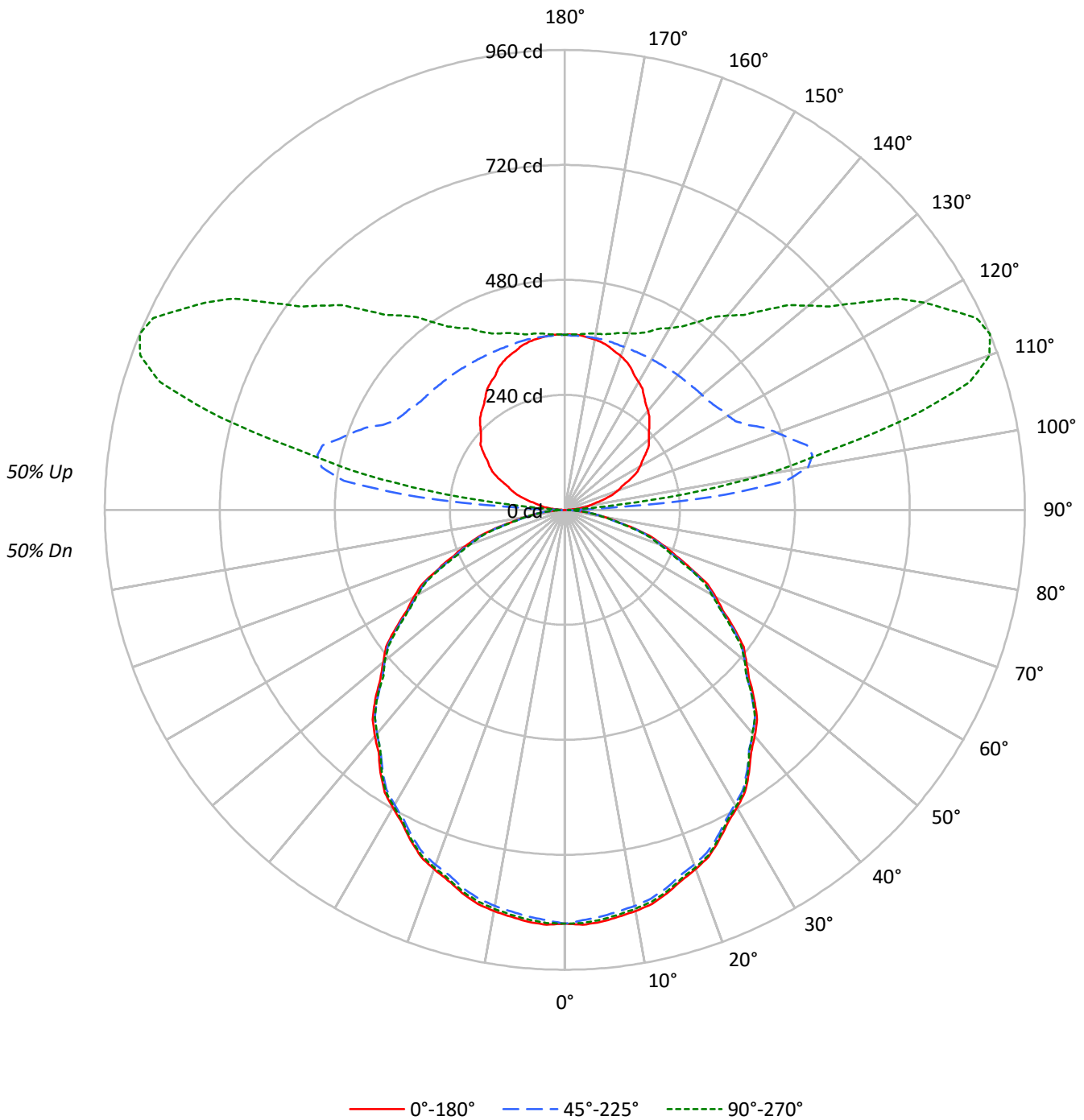
Lumens per Lamp: N/A
Luminaire Lumens: 4741.2 lumens
Efficiency: N/A
Efficacy: 111.6 lumens/watt
Spacing Criteria (0/90/45): 1.24 / 1.24 / 1.35
Luminous Opening: Rectangular (W 0.29' x L: 4' x H: 0')
CIE Type: General Diffuse

Input Watts (W): 42.5
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°	7969	7969	7969
5°	7999	7898	7956
10°	7967	7865	7923
15°	7906	7809	7875
20°	7835	7742	7804
25°	7749	7669	7725
30°	7650	7567	7608
35°	7550	7471	7506
40°	7423	7347	7337
45°	7295	7204	7223
50°	7092	7036	7036
55°	6928	6840	6777
60°	6704	6589	6532
65°	6342	6224	6137
70°	5956	5808	5662
75°	5361	5165	5051
80°	4288	4203	4160
85°	2572	2911	2975



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	81.5	1.7
10°-20°	232.1	4.9
20°-30°	348.7	7.4
30°-40°	416.1	8.8
40°-50°	426.7	9.0
50°-60°	380.2	8.0
60°-70°	283.5	6.0
70°-80°	153.7	3.2
80°-90°	36.3	0.8
90°-100°	172.5	3.6
100°-110°	474.5	10.0
110°-120°	489.8	10.3
120°-130°	392.4	8.3
130°-140°	308.2	6.5
140°-150°	236.2	5.0
150°-160°	169.8	3.6
160°-170°	103.8	2.2
170°-180°	35.0	0.7
0°-30°	662.3	14.0
0°-40°	1078.4	22.7
0°-60°	1885.3	39.8
0°-90°	2358.9	49.8
90°-120°	1136.8	24.0
90°-150°	2073.6	43.7
90°-180°	2382.0	50.2
0°-180°	4741.2	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	864	864	864	864	864	
5°	864	862	853	860	859	82
15°	828	826	818	824	824	233
25°	761	760	753	757	759	351
35°	670	669	663	663	666	419
45°	559	557	552	552	554	430
55°	431	430	425	421	421	385
65°	290	290	285	282	281	289
75°	150	147	145	142	142	158
85°	24	26	28	28	28	34
90°	1	3	6	7	7	2
95°	26	94	305	130	83	27
105°	85	130	523	796	743	89
115°	150	183	419	835	948	148
125°	207	236	380	644	754	185
135°	250	277	370	521	589	193
145°	289	308	364	444	478	181
155°	327	338	362	399	410	150
165°	353	358	363	378	380	100
175°	366	366	364	369	368	35
180°	366	366	366	366	366	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	863.7	863.7	863.7	863.7	863.7
2.5°	866.9	865.0	857.5	863.7	863.1
5°	863.7	862.2	852.8	859.8	859.0
7.5°	856.7	855.0	845.7	852.8	852.6
10°	850.4	848.2	839.5	846.5	845.7
12.5°	842.3	840.0	831.3	838.3	837.5
15°	827.7	826.2	817.6	823.9	824.5
17.5°	811.1	808.2	800.4	806.5	807.3
20°	798.0	795.6	788.5	794.0	794.8
22.5°	784.2	781.8	774.8	780.3	781.0
25°	761.2	760.4	753.3	757.2	758.8
27.5°	736.3	734.1	728.4	731.5	732.9
30°	718.1	716.6	710.3	712.7	714.1
32.5°	699.3	698.4	692.7	693.9	696.0
35°	670.3	668.8	663.3	663.4	666.4
37.5°	638.2	636.5	632.0	631.2	632.5
40°	616.3	614.0	610.0	609.2	609.2
42.5°	593.7	592.0	586.8	585.4	587.3
45°	559.1	556.8	552.1	552.1	553.6
47.5°	521.7	520.8	515.3	512.8	513.4
50°	494.1	495.7	490.2	487.1	490.2
52.5°	470.3	469.4	464.5	461.4	462.6
55°	430.7	429.9	425.2	421.3	421.3
57.5°	390.9	388.9	384.0	381.1	383.4
60°	363.3	362.6	357.1	351.6	354.0
62.5°	335.8	334.4	328.9	325.3	327.0
65°	290.5	290.5	285.1	281.9	281.1
67.5°	250.9	247.2	244.1	240.4	239.3
70°	220.8	217.8	215.3	212.2	209.9
72.5°	191.4	189.5	185.9	182.7	182.3
75°	150.4	147.3	144.9	142.5	141.7
77.5°	107.0	106.4	104.1	102.9	103.3
80°	80.7	80.7	79.1	79.1	78.3
82.5°	56.9	57.5	57.2	55.9	55.8
85°	24.3	25.8	27.5	27.5	28.1
87.5°	4.5	8.1	8.0	8.3	8.3
90°	0.8	3.0	5.5	7.0	7.0
92.5°	10.8	45.9	79.5	30.5	25.0
95°	25.7	94.2	305.0	130.4	83.2
97.5°	41.9	104.4	465.4	358.6	253.0
100°	53.7	110.7	515.9	520.7	424.8
102.5°	64.8	118.3	529.0	645.9	558.0
105°	84.8	130.5	522.9	796.3	743.1
107.5°	103.8	145.4	493.2	869.9	885.8
110°	117.5	155.5	470.8	888.2	943.0



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	129.9	166.8	448.3	876.4	959.8
115°	150.1	182.9	419.4	835.1	947.7
117.5°	169.5	199.6	401.0	777.0	904.5
120°	181.2	210.2	392.9	733.6	865.2
122.5°	191.9	220.8	387.3	695.4	820.3
125°	207.0	235.9	380.5	643.6	753.9
127.5°	221.3	248.8	376.0	600.4	697.1
130°	228.8	256.9	373.4	574.6	662.9
132.5°	237.5	265.7	371.6	552.1	631.8
135°	249.7	277.1	369.5	520.6	589.0
137.5°	261.3	286.7	367.9	495.0	551.5
140°	270.0	293.5	367.3	478.1	529.1
142.5°	277.5	299.2	366.0	463.0	506.7
145°	288.6	308.4	364.2	443.5	477.7
147.5°	300.7	317.7	363.2	426.3	453.7
150°	308.1	323.4	362.6	416.8	438.0
152.5°	315.0	328.9	362.0	408.6	426.3
155°	326.8	337.5	361.8	398.6	410.0
157.5°	335.3	344.0	361.8	390.5	398.4
160°	341.6	348.4	361.8	386.1	392.1
162.5°	346.5	352.2	362.4	382.2	387.1
165°	353.2	357.8	363.4	378.2	380.5
167.5°	357.9	361.4	364.2	374.7	375.3
170°	361.0	363.3	364.2	373.4	373.4
172.5°	363.5	364.5	364.2	371.6	371.0
175°	365.7	366.4	364.2	368.8	368.1
177.5°	366.3	366.3	363.9	367.6	366.3
180°	365.7	365.7	365.7	365.7	365.7

(END OF REPORT)