

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: P519912

Luminaire Tested: **SQ4-F-050U-075D-835-1D-UNV-STD-W-4**

Issue Date: 4/29/2021

Test Information

Test Method: LM-79-2019
Report Number: P519912
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1910-536-21, 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-050U-075D-835-1D-UNV-STD-W-4
Description: CORELITE SQ4 SUSPENDED LED LUMINAIRE
DOWNLIGHT 750 LUMENS PER FOOT
UPLIGHT 500 LUMENS PER FOOT
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

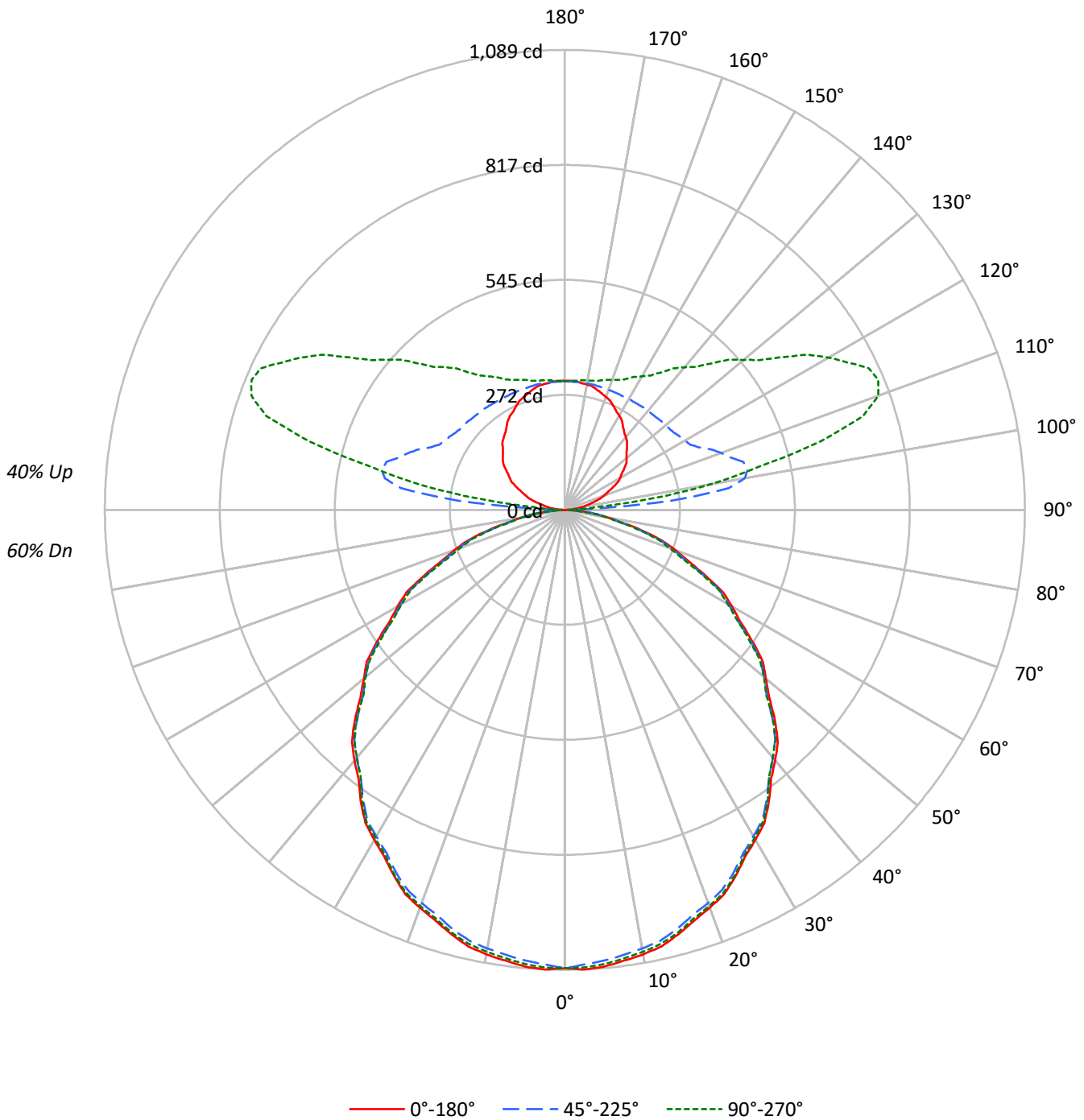
Lumens per Lamp: N/A
Luminaire Lumens: 4956.1 lumens
Efficiency: N/A
Efficacy: 136.5 lumens/watt
Spacing Criteria (0/90/45): 1.24 / 1.24 / 1.35
Luminous Opening: Rectangular (W 0.29' x L: 4' x H: 0')
CIE Type: General Diffuse

Input Watts (W): 36.3
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	109	109	109	109	102	102	102	102	89	89	89	76	76	76	65	65	65	60
1	100	96	92	88	93	89	86	83	78	75	73	67	65	64	58	56	55	50
2	91	83	77	72	85	78	73	68	68	64	60	59	56	53	51	48	46	42
3	83	73	66	60	77	69	62	57	60	55	51	52	48	45	45	42	39	35
4	76	65	57	50	71	61	54	48	53	48	43	46	42	38	40	36	34	30
5	70	58	49	43	65	54	47	41	48	42	37	42	37	33	36	32	29	26
6	64	52	43	37	60	49	41	36	43	37	32	38	33	29	32	29	26	23
7	59	47	39	33	55	44	37	31	39	33	28	34	29	26	30	26	23	20
8	55	42	35	29	51	40	33	28	35	30	25	31	26	23	27	23	20	18
9	51	39	31	26	48	37	30	25	33	27	23	29	24	21	25	21	18	16
10	48	36	28	23	45	34	27	22	30	24	20	27	22	19	23	19	17	15

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	10014	10014	10014
5°	10052	9925	9998
10°	10012	9883	9957
15°	9936	9813	9897
20°	9846	9729	9807
25°	9737	9637	9708
30°	9614	9508	9562
35°	9488	9388	9432
40°	9328	9233	9221
45°	9167	9053	9077
50°	8912	8842	8842
55°	8705	8594	8516
60°	8425	8280	8208
65°	7971	7820	7713
70°	7486	7300	7113
75°	6734	6491	6349
80°	5388	5281	5228
85°	3229	3642	3747



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	102.5	2.1
10°-20°	291.7	5.9
20°-30°	438.2	8.8
30°-40°	522.9	10.5
40°-50°	536.2	10.8
50°-60°	477.8	9.6
60°-70°	356.3	7.2
70°-80°	193.2	3.9
80°-90°	45.6	0.9
90°-100°	146.4	3.0
100°-110°	397.8	8.0
110°-120°	409.0	8.3
120°-130°	327.0	6.6
130°-140°	257.0	5.2
140°-150°	197.0	4.0
150°-160°	141.7	2.9
160°-170°	86.7	1.7
170°-180°	29.2	0.6
0°-30°	832.3	16.8
0°-40°	1355.2	27.3
0°-60°	2369.2	47.8
0°-90°	2964.2	59.8
90°-120°	953.3	19.2
90°-150°	1734.4	35.0
90°-180°	1992.0	40.2
0°-180°	4956.1	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1085	1085	1085	1085	1085	
5°	1085	1084	1072	1080	1080	103
15°	1040	1038	1027	1035	1036	293
25°	956	956	947	952	954	441
35°	842	840	834	834	837	526
45°	703	700	694	694	696	541
55°	541	540	534	529	529	483
65°	365	365	358	354	353	363
75°	189	185	182	179	178	198
85°	30	32	34	34	35	42
90°	1	4	7	9	9	2
95°	22	80	255	111	75	23
105°	71	110	438	666	627	75
115°	126	152	350	697	794	124
125°	173	197	317	534	630	154
135°	208	231	308	435	490	161
145°	240	258	304	370	397	151
155°	272	281	302	332	341	125
165°	294	298	303	316	317	83
175°	305	306	304	308	307	29
180°	305	305	305	305	305	

TEST NUMBER: P519912

CATALOG NUMBER: SQ4-F-050U-075D-835-1D-UNV-STD-W-4

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1085.4	1085.4	1085.4	1085.4	1085.4
2.5°	1089.4	1087.1	1077.5	1085.4	1084.6
5°	1085.4	1083.5	1071.6	1080.5	1079.5
7.5°	1076.6	1074.5	1062.8	1071.6	1071.4
10°	1068.7	1065.8	1054.9	1063.8	1062.8
12.5°	1058.5	1055.6	1044.7	1053.5	1052.6
15°	1040.2	1038.2	1027.4	1035.2	1036.2
17.5°	1019.3	1015.6	1005.9	1013.6	1014.6
20°	1002.8	999.9	990.9	997.8	998.8
22.5°	985.4	982.6	973.6	980.5	981.5
25°	956.5	955.5	946.7	951.6	953.6
27.5°	925.2	922.6	915.4	919.1	921.1
30°	902.4	900.4	892.5	895.5	897.5
32.5°	878.8	877.6	870.5	872.0	874.6
35°	842.4	840.4	833.5	833.6	837.4
37.5°	802.0	799.8	794.1	793.2	794.7
40°	774.5	771.6	766.6	765.6	765.6
42.5°	746.1	744.0	737.5	735.8	738.0
45°	702.6	699.8	693.8	693.8	695.7
47.5°	655.6	654.4	647.5	644.4	645.2
50°	620.9	622.9	616.0	612.2	616.0
52.5°	591.0	589.8	583.7	579.8	581.4
55°	541.2	540.2	534.3	529.4	529.4
57.5°	491.2	488.8	482.6	478.9	481.8
60°	456.6	455.6	448.7	441.9	444.8
62.5°	422.0	420.2	413.3	408.8	410.9
65°	365.1	365.1	358.2	354.3	353.3
67.5°	315.3	310.7	306.8	302.1	300.7
70°	277.5	273.7	270.6	266.6	263.7
72.5°	240.5	238.2	233.6	229.7	229.1
75°	188.9	185.1	182.1	179.1	178.1
77.5°	134.4	133.6	130.9	129.3	129.9
80°	101.4	101.4	99.4	99.4	98.4
82.5°	71.4	72.2	71.8	70.3	70.1
85°	30.5	32.5	34.4	34.4	35.4
87.5°	5.7	10.1	10.0	10.4	10.4
90°	1.0	3.8	6.9	8.8	8.8
92.5°	8.8	40.1	69.7	29.9	25.3
95°	21.6	80.1	255.0	111.0	74.6
97.5°	35.7	88.4	391.0	304.2	213.6
100°	45.1	94.0	432.6	438.5	354.1
102.5°	54.6	99.6	443.5	542.4	467.9
105°	70.7	110.0	437.5	666.2	626.8
107.5°	87.3	122.1	412.2	730.1	741.0
110°	99.1	130.7	393.4	742.6	789.6

TEST NUMBER: P519912

CATALOG NUMBER: SQ4-F-050U-075D-835-1D-UNV-STD-W-4

CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	109.3	139.4	374.6	732.2	803.0
115°	125.6	152.4	350.2	696.7	793.6
117.5°	140.9	166.5	334.7	646.4	755.5
120°	151.0	176.0	327.7	612.6	721.0
122.5°	159.7	184.7	322.9	578.8	683.4
125°	172.6	196.6	316.9	533.8	629.8
127.5°	184.2	208.0	313.5	499.8	582.1
130°	191.3	214.3	312.0	478.4	552.3
132.5°	198.3	221.4	310.4	460.2	525.6
135°	207.9	231.0	308.0	434.8	490.4
137.5°	218.3	239.2	306.8	412.4	459.2
140°	224.6	244.7	306.1	398.2	440.4
142.5°	230.9	249.5	305.3	387.1	422.4
145°	240.3	257.6	304.1	369.5	397.3
147.5°	250.9	265.7	303.1	355.6	377.5
150°	258.0	270.4	303.1	347.7	364.9
152.5°	263.5	274.4	302.3	340.5	354.7
155°	271.7	281.3	302.1	331.8	341.4
157.5°	279.8	287.2	302.1	325.9	333.1
160°	284.5	291.1	302.1	321.9	327.7
162.5°	289.2	294.4	302.9	318.7	322.9
165°	294.3	298.1	303.1	315.9	316.9
167.5°	299.6	301.5	304.1	312.5	313.3
170°	301.2	303.0	304.1	311.0	311.0
172.5°	302.7	303.9	304.1	309.4	309.4
175°	305.1	306.1	304.1	308.0	307.0
177.5°	305.9	305.9	303.5	306.7	305.1
180°	305.1	305.1	305.1	305.1	305.1

(END OF REPORT)