

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: P520020

Luminaire Tested: **SQ4-F-075U-075D-935-1D-UNV-STD-W-4**

Issue Date: 4/29/2021

Test Information

Test Method: LM-79-2019
Report Number: P520020
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-935-1D-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

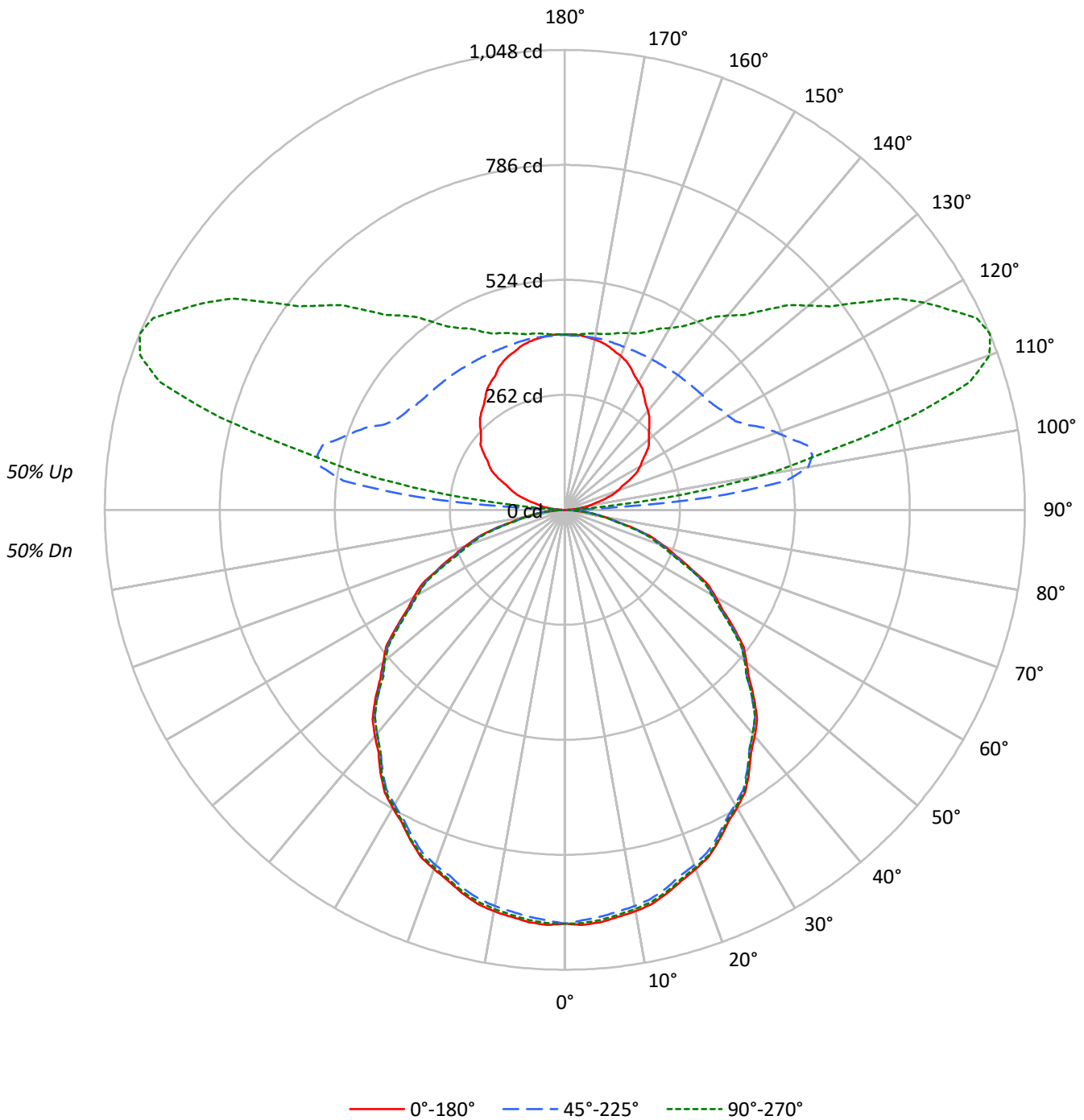
Lumens per Lamp: N/A
Luminaire Lumens: 5176.9 lumens
Efficiency: N/A
Efficacy: 121.8 lumens/watt
Spacing Criteria (0/90/45): 1.24 / 1.24 / 1.35
Luminous Opening: Rectangular (W 0.29' x L: 4' x H: 0')
CIE Type: General Diffuse

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°	8701	8701	8701
5°	8734	8623	8687
10°	8700	8588	8651
15°	8633	8526	8599
20°	8555	8455	8520
25°	8461	8374	8435
30°	8353	8262	8308
35°	8243	8158	8195
40°	8104	8022	8012
45°	7966	7865	7887
50°	7745	7682	7682
55°	7565	7468	7399
60°	7322	7195	7130
65°	6927	6796	6700
70°	6504	6342	6183
75°	5850	5636	5518
80°	4681	4591	4543
85°	2805	3165	3260



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	89.0	1.7
10°-20°	253.4	4.9
20°-30°	380.8	7.4
30°-40°	454.3	8.8
40°-50°	465.9	9.0
50°-60°	415.2	8.0
60°-70°	309.6	6.0
70°-80°	167.9	3.2
80°-90°	39.6	0.8
90°-100°	188.3	3.6
100°-110°	518.1	10.0
110°-120°	534.8	10.3
120°-130°	428.5	8.3
130°-140°	336.5	6.5
140°-150°	257.9	5.0
150°-160°	185.4	3.6
160°-170°	113.4	2.2
170°-180°	38.2	0.7
0°-30°	723.2	14.0
0°-40°	1177.5	22.7
0°-60°	2058.6	39.8
0°-90°	2575.6	49.8
90°-120°	1241.3	24.0
90°-150°	2264.2	43.7
90°-180°	2601.0	50.2
0°-180°	5176.9	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	943	943	943	943	943	
5°	943	942	931	939	938	89
15°	904	902	893	900	900	255
25°	831	830	823	827	829	383
35°	732	730	724	724	728	457
45°	610	608	603	603	604	470
55°	470	469	464	460	460	420
65°	317	317	311	308	307	316
75°	164	161	158	156	155	172
85°	26	28	30	30	31	37
90°	1	3	6	8	8	3
95°	28	103	333	142	91	30
105°	93	142	571	869	811	98
115°	164	200	458	912	1035	162
125°	226	258	415	703	823	202
135°	273	303	404	568	643	210
145°	315	337	398	484	522	198
155°	357	368	395	435	448	164
165°	386	391	397	413	415	109
175°	399	400	398	403	402	38
180°	399	399	399	399	399	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	943.1	943.1	943.1	943.1	943.1
2.5°	946.6	944.5	936.2	943.1	942.4
5°	943.1	941.5	931.1	938.8	938.0
7.5°	935.4	933.6	923.4	931.1	931.0
10°	928.6	926.1	916.7	924.3	923.4
12.5°	919.7	917.1	907.7	915.4	914.6
15°	903.8	902.1	892.6	899.5	900.3
17.5°	885.7	882.5	874.0	880.7	881.5
20°	871.3	868.8	861.1	867.1	867.8
22.5°	856.2	853.8	846.0	852.0	852.8
25°	831.1	830.3	822.6	826.9	828.6
27.5°	803.9	801.6	795.3	798.7	800.3
30°	784.1	782.4	775.5	778.1	779.8
32.5°	763.5	762.5	756.3	757.6	760.0
35°	731.9	730.3	724.3	724.3	727.6
37.5°	696.8	695.0	690.0	689.2	690.5
40°	672.9	670.4	666.1	665.2	665.2
42.5°	648.3	646.4	640.7	639.2	641.3
45°	610.5	608.0	602.8	602.8	604.5
47.5°	569.7	568.6	562.6	559.9	560.5
50°	539.6	541.2	535.2	531.9	535.2
52.5°	513.6	512.5	507.2	503.8	505.1
55°	470.3	469.4	464.3	460.0	460.0
57.5°	426.9	424.6	419.3	416.2	418.6
60°	396.8	395.9	389.9	384.0	386.4
62.5°	366.7	365.2	359.1	355.2	357.1
65°	317.3	317.3	311.3	307.8	306.9
67.5°	274.0	269.9	266.6	262.4	261.3
70°	241.1	237.7	235.1	231.6	229.2
72.5°	209.0	206.9	203.0	199.6	199.1
75°	164.1	160.8	158.1	155.6	154.8
77.5°	116.8	116.1	113.8	112.4	112.9
80°	88.1	88.1	86.4	86.3	85.5
82.5°	62.1	62.8	62.4	61.0	60.9
85°	26.5	28.1	29.9	29.9	30.8
87.5°	4.9	8.8	8.8	9.1	9.1
90°	0.9	3.3	6.0	7.6	7.6
92.5°	11.7	50.1	86.9	33.4	27.4
95°	28.1	102.8	333.0	142.4	90.9
97.5°	45.7	114.0	508.2	391.5	276.3
100°	58.6	120.9	563.3	568.6	463.8
102.5°	70.8	129.2	577.6	705.3	609.3
105°	92.6	142.4	570.9	869.4	811.3
107.5°	113.4	158.8	538.5	949.9	967.2
110°	128.3	169.8	514.0	969.9	1029.7



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	141.9	182.1	489.5	957.0	1048.1
115°	163.9	199.7	458.0	911.8	1034.8
117.5°	185.1	217.9	437.9	848.5	987.5
120°	198.0	229.6	429.0	801.0	944.8
122.5°	209.5	241.1	422.9	759.4	895.8
125°	225.9	257.5	415.4	702.8	823.3
127.5°	241.6	271.7	410.5	655.5	761.2
130°	249.8	280.5	407.8	627.5	723.8
132.5°	259.3	290.0	405.7	602.8	689.9
135°	272.7	302.6	403.6	568.4	643.1
137.5°	285.3	313.0	401.7	540.5	602.1
140°	294.8	320.5	401.0	522.0	577.7
142.5°	302.9	326.7	399.7	505.6	553.2
145°	315.1	336.8	397.6	484.3	521.6
147.5°	328.3	346.8	396.6	465.4	495.3
150°	336.5	353.0	395.9	455.0	478.3
152.5°	343.9	359.2	395.3	446.1	465.4
155°	356.8	368.5	395.1	435.3	447.7
157.5°	366.2	375.6	395.1	426.4	435.0
160°	373.0	380.4	395.1	421.6	428.2
162.5°	378.4	384.5	395.7	417.5	422.7
165°	385.7	390.7	396.7	413.0	415.4
167.5°	390.8	394.7	397.6	409.1	409.8
170°	394.2	396.7	397.6	407.8	407.8
172.5°	396.9	398.1	397.6	405.7	405.0
175°	399.3	400.1	397.6	402.7	401.8
177.5°	400.0	400.0	397.2	401.3	400.0
180°	399.3	399.3	399.3	399.3	399.3

(END OF REPORT)