

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: P519828

Luminaire Tested: **SQ4-F-025U-075D-935-1D-UNV-STD-W-4**

Issue Date: 4/29/2021

Test Information

Test Method: LM-79-2019
Report Number: P519828
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1910-536-32, 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-025U-075D-935-1D-UNV-STD-W-4
Description: CORELITE SQ4 SUSPENDED LED LUMINAIRE
DOWNLIGHT 750 LUMENS PER FOOT
UPLIGHT 250 LUMENS PER FOOT
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

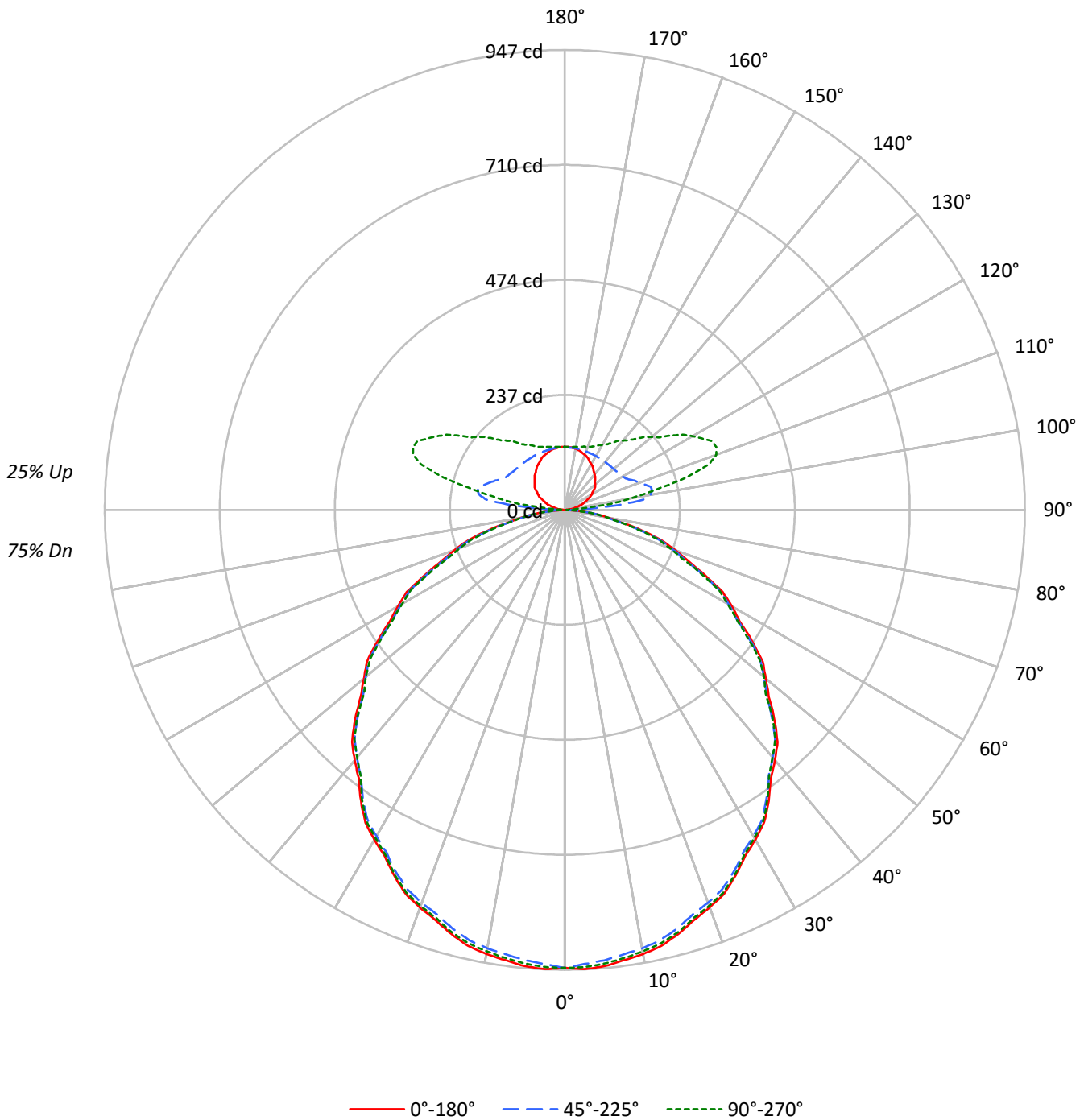
Lumens per Lamp: N/A
Luminaire Lumens: 3414.6 lumens
Efficiency: N/A
Efficacy: 114.2 lumens/watt
Spacing Criteria (0/90/45): 1.24 / 1.24 / 1.35
Luminous Opening: Rectangular (W 0.29' x L: 4' x H: 0')
CIE Type: Semi-Direct

Input Watts (W): 29.9
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	113	113	113	113	108	108	108	108	97	97	97	88	88	88	79	79	79	75
1	103	99	95	91	98	94	91	87	86	83	80	78	75	73	70	69	67	63
2	94	86	80	74	89	82	77	72	75	70	66	68	64	61	62	59	56	53
3	86	76	68	62	81	72	65	60	66	60	56	60	56	52	55	51	48	45
4	79	67	59	52	74	64	57	51	59	52	47	53	48	44	49	45	41	38
5	72	60	51	45	68	57	49	44	52	46	41	48	43	38	44	39	36	33
6	67	54	45	39	63	52	44	38	47	41	36	43	38	34	40	35	31	29
7	62	49	40	34	58	47	39	33	43	36	32	39	34	30	36	32	28	26
8	57	44	36	31	54	43	35	30	39	33	28	36	31	27	33	29	25	23
9	53	41	33	27	51	39	32	27	36	30	25	33	28	24	31	26	23	21
10	50	37	30	25	48	36	29	24	33	27	23	31	25	22	28	24	20	19

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	2.6
10°-20°	253.4	7.4
20°-30°	380.8	11.2
30°-40°	454.3	13.3
40°-50°	465.9	13.6
50°-60°	415.2	12.2
60°-70°	309.6	9.1
70°-80°	167.9	4.9
80°-90°	39.3	1.1
90°-100°	63.1	1.8
100°-110°	165.9	4.9
110°-120°	172.1	5.0
120°-130°	138.0	4.0
130°-140°	108.3	3.2
140°-150°	83.1	2.4
150°-160°	59.9	1.8
160°-170°	36.6	1.1
170°-180°	12.4	0.4
0°-30°	723.2	21.2
0°-40°	1177.5	34.5
0°-60°	2058.6	60.3
0°-90°	2575.3	75.4
90°-120°	401.1	11.7
90°-150°	730.5	21.4
90°-180°	839.0	24.6
0°-180°	3414.6	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	2	7	3	3	1
95°	8	33	109	56	38	9
105°	30	45	183	278	260	32
115°	53	64	147	293	335	52
125°	74	83	134	226	266	66
135°	88	97	130	182	207	68
145°	102	109	128	156	168	64
155°	115	119	128	140	144	53
165°	124	126	128	133	134	35
175°	130	130	129	130	130	12
180°	130	130	130	130	130	



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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	8.7	8.9	8.2	8.2
90°	0.9	2.5	6.6	3.3	3.3
92.5°	3.4	16.8	37.2	16.4	10.6
95°	8.3	32.7	108.8	56.0	38.1
97.5°	14.4	35.8	162.7	129.4	95.3
100°	19.1	38.6	179.3	181.7	141.1
102.5°	23.0	41.3	183.9	226.3	191.6
105°	29.9	45.3	183.4	278.4	259.8
107.5°	36.9	51.1	173.0	305.6	310.1
110°	41.5	54.5	164.3	312.6	332.0



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	46.2	58.5	156.4	308.2	338.0
115°	53.1	64.5	146.9	293.2	334.6
117.5°	59.9	70.4	140.4	272.3	318.2
120°	63.9	73.7	137.7	258.4	303.0
122.5°	67.9	77.6	135.8	244.4	288.4
125°	73.9	82.8	133.6	225.9	266.4
127.5°	78.7	87.7	131.8	211.0	245.2
130°	81.3	91.1	131.1	201.6	233.2
132.5°	84.0	93.8	130.5	193.6	222.0
135°	87.9	96.9	129.5	182.4	206.7
137.5°	92.1	100.9	129.3	174.0	193.9
140°	95.5	103.6	128.7	167.3	185.9
142.5°	98.1	105.6	128.7	162.6	178.7
145°	102.1	108.6	127.8	155.5	167.7
147.5°	106.1	112.4	127.8	149.6	159.7
150°	108.8	114.4	127.8	146.2	154.4
152.5°	111.4	115.8	127.8	143.6	149.8
155°	115.4	118.6	127.8	140.4	144.4
157.5°	118.3	121.5	127.8	137.5	140.4
160°	120.3	122.8	127.8	136.2	137.7
162.5°	122.3	124.2	127.8	134.9	136.5
165°	124.5	126.2	127.8	132.9	134.5
167.5°	126.5	127.3	128.7	132.0	132.7
170°	127.8	128.7	128.7	132.0	132.0
172.5°	128.5	128.7	128.7	131.3	130.7
175°	129.5	129.5	128.7	130.3	130.3
177.5°	129.5	129.5	128.8	130.1	129.5
180°	129.5	129.5	129.5	129.5	129.5

(END OF REPORT)