

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: P520116

Luminaire Tested: **SQ4-F-0U-075D-935-1D-UNV-STD-W-4**

Issue Date: 4/29/2021

Test Information

Test Method: LM-79-2019
Report Number: P520116
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (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-0U-075D-935-1D-UNV-STD-W-4
Description: CORELITE SQ4 SUSPENDED LED LUMINAIRE
DOWNLIGHT 750 LUMENS PER FOOT
DIRECT ONLY
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

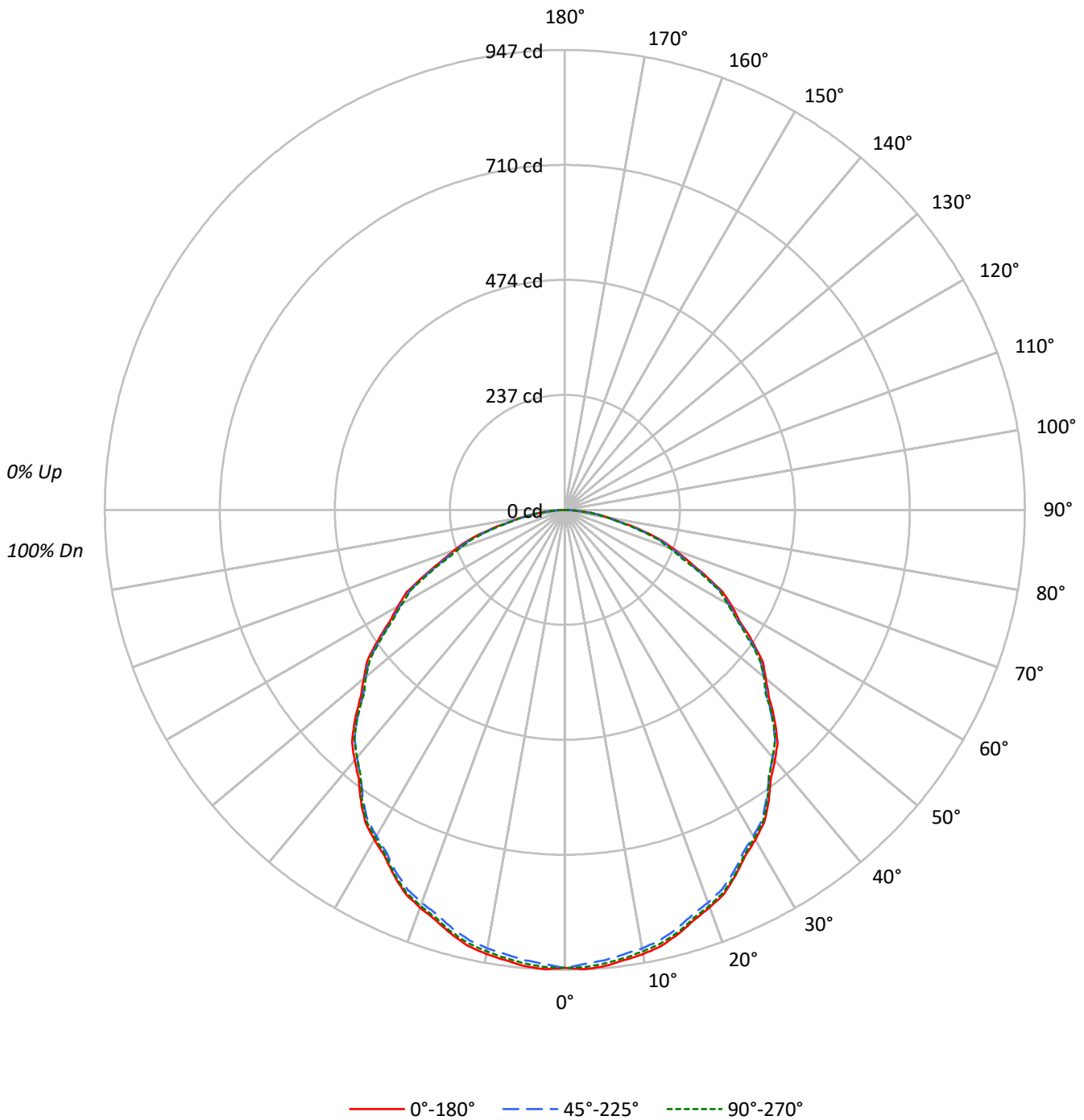
Lumens per Lamp: N/A
Luminaire Lumens: 2574.6 lumens
Efficiency: N/A
Efficacy: 107.3 lumens/watt
Spacing Criteria (0/90/45): 1.24 / 1.24 / 1.35
Luminous Opening: Rectangular (W 0.29' x L: 4' x H: 0')
CIE Type: Direct

Input Watts (W): 24
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: P520116
CATALOG NUMBER: SQ4-F-0U-075D-935-1D-UNV-STD-W-4

Luminous Intensity Polar Plot





TEST NUMBER: P520116

CATALOG NUMBER: SQ4-F-0U-075D-935-1D-UNV-STD-W-4

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	50	30	10	0	
RCR																						
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100				100
1	109	104	100	96	106	102	98	95	98	95	92	94	91	89	90	88	86	84				84
2	99	91	84	79	97	89	83	78	86	80	76	82	78	74	79	76	72	70				70
3	90	80	72	65	88	78	71	65	75	69	64	73	67	63	70	65	61	59				59
4	83	71	62	55	81	70	61	55	67	60	54	65	59	54	63	57	53	51				51
5	76	63	54	48	74	62	54	48	60	53	47	58	52	46	56	51	46	44				44
6	70	57	48	42	68	56	48	42	54	47	41	53	46	41	51	45	40	38				38
7	65	52	43	37	64	51	43	37	49	42	36	48	41	36	47	41	36	34				34
8	61	47	39	33	59	47	38	33	45	38	33	44	37	32	43	37	32	30				30
9	57	43	35	30	55	43	35	30	42	34	29	41	34	29	40	34	29	27				27
10	53	40	32	27	52	40	32	27	39	32	27	38	31	27	37	31	26	25				25

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



TEST NUMBER: P520116

CATALOG NUMBER: SQ4-F-0U-075D-935-1D-UNV-STD-W-4

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	89.0	3.5
10°-20°	253.4	9.8
20°-30°	380.8	14.8
30°-40°	454.3	17.6
40°-50°	465.9	18.1
50°-60°	415.2	16.1
60°-70°	309.6	12.0
70°-80°	167.9	6.5
80°-90°	38.6	1.5
90°-100°	0.0	0.0
100°-110°	0.0	0.0
110°-120°	0.0	0.0
120°-130°	0.0	0.0
130°-140°	0.0	0.0
140°-150°	0.0	0.0
150°-160°	0.0	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-30°	723.2	28.1
0°-40°	1177.5	45.7
0°-60°	2058.6	80.0
0°-90°	2574.6	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2574.6	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°	0	0	0	0	0	



TEST NUMBER: P520116

CATALOG NUMBER: SQ4-F-0U-075D-935-1D-UNV-STD-W-4

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°	4.8	8.2	7.5	7.5	7.5
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)