

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: P520168

Luminaire Tested: **SQ4-F-0U-125D-940-1D-UNV-STD-W-4**

Issue Date: 4/29/2021

Test Information

Test Method: LM-79-2019
Report Number: P520168
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1910-536-20)
Test Lab: INNOVATION CENTER
Issue Date: 4/29/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: CORELITE
Catalog Number: SQ4-F-0U-125D-940-1D-UNV-STD-W-4
Description: CORELITE SQ4 SUSPENDED LED LUMINAIRE
DOWNLIGHT 1250 LUMENS PER FOOT
DIRECT ONLY
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

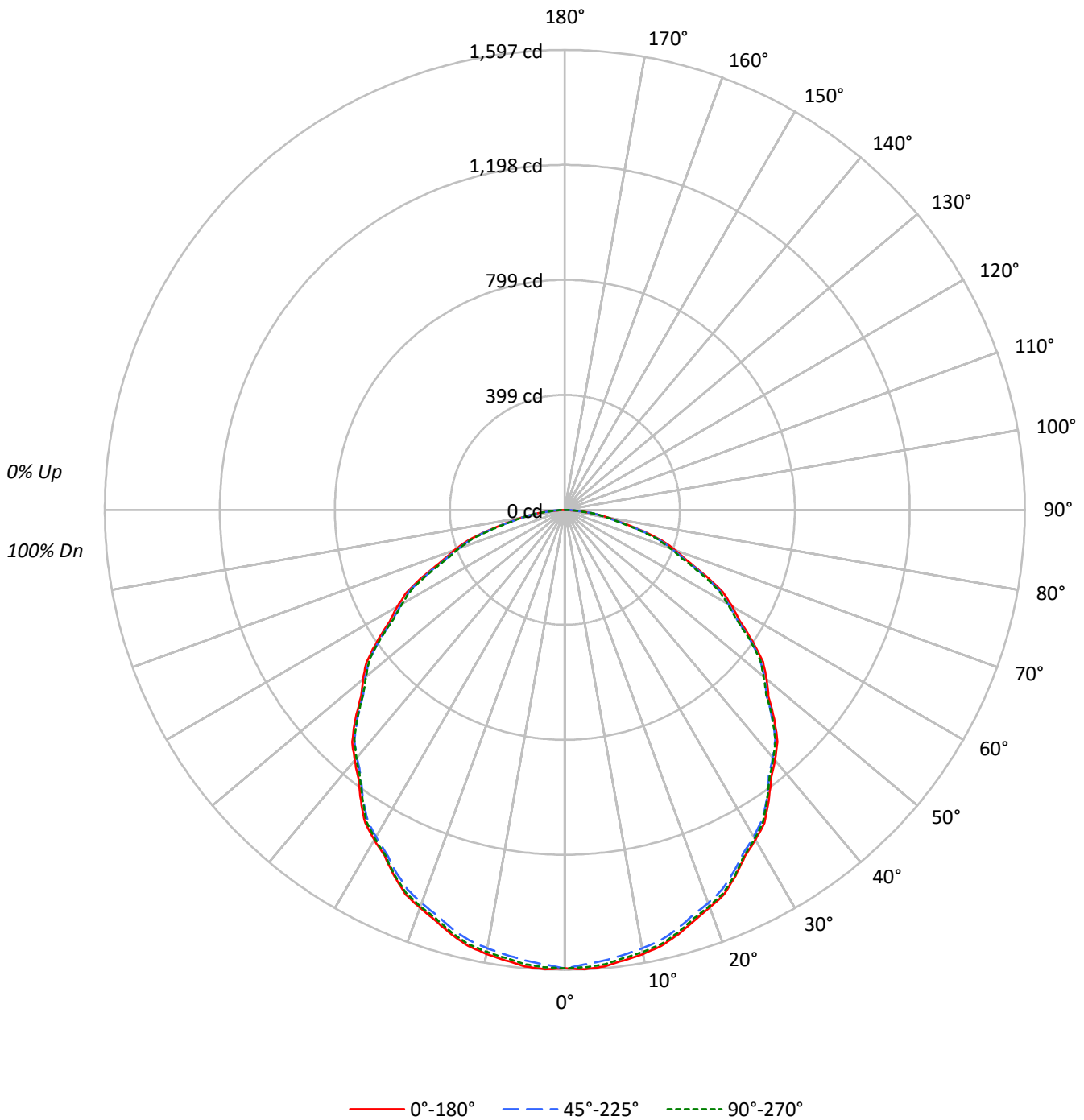
Lumens per Lamp: N/A
Luminaire Lumens: 4343.4 lumens
Efficiency: N/A
Efficacy: 99.6 lumens/watt
Spacing Criteria (0/90/45): 1.24 / 1.24 / 1.35
Luminous Opening: Rectangular (W 0.29' x L: 4' x H: 0')
CIE Type: Direct

Input Watts (W): 43.6
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	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100
1	109	104	100	96	106	102	98	95	98	95	92	94	91	89	90	88	86	84
2	99	91	84	79	97	89	83	78	86	80	76	82	78	74	79	76	72	70
3	90	80	72	65	88	78	71	65	75	69	64	73	67	63	70	65	62	59
4	83	71	62	56	81	70	61	55	67	60	54	65	59	54	63	57	53	51
5	76	63	54	48	74	62	54	48	60	53	47	58	52	47	56	51	46	44
6	70	57	48	42	68	56	48	42	54	47	41	53	46	41	51	45	40	38
7	65	52	43	37	64	51	43	37	49	42	36	48	41	36	47	41	36	34
8	61	47	39	33	59	47	38	33	45	38	33	44	37	32	43	37	32	30
9	57	43	35	30	55	43	35	30	42	34	29	41	34	29	40	34	29	27
10	53	40	32	27	52	40	32	27	39	32	27	38	31	27	37	31	26	25

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	14688	14688	14688
5°	14736	14550	14671
10°	14668	14487	14603
15°	14570	14394	14512
20°	14435	14272	14383
25°	14271	14120	14236
30°	14095	13973	14048
35°	13895	13776	13786
40°	13665	13518	13560
45°	13409	13262	13284
50°	13118	12965	12928
55°	12783	12598	12571
60°	12367	12092	12029
65°	11725	11477	11324
70°	10920	10636	10494
75°	9714	9496	9211
80°	7917	7678	7635
85°	4732	5378	5378



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	150.2	3.5
10°-20°	427.8	9.8
20°-30°	642.7	14.8
30°-40°	766.9	17.7
40°-50°	786.1	18.1
50°-60°	700.7	16.1
60°-70°	521.6	12.0
70°-80°	282.6	6.5
80°-90°	64.9	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°	1220.7	28.1
0°-40°	1987.6	45.8
0°-60°	3474.4	80.0
0°-90°	4343.4	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4343.4	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1592	1592	1592	1592	1592	
5°	1591	1589	1571	1585	1584	151
15°	1525	1522	1507	1520	1519	430
25°	1402	1399	1387	1395	1398	646
35°	1234	1233	1223	1223	1224	771
45°	1028	1025	1016	1015	1018	792
55°	795	792	783	777	782	710
65°	537	534	526	522	519	532
75°	272	272	266	261	258	289
85°	45	51	51	52	51	63
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1592.0	1592.0	1592.0	1592.0	1592.0
2.5°	1596.9	1594.2	1580.1	1591.9	1589.9
5°	1591.1	1588.6	1571.0	1584.9	1584.1
7.5°	1577.6	1574.4	1558.4	1571.5	1569.9
10°	1565.7	1563.1	1546.4	1559.6	1558.7
12.5°	1551.0	1548.5	1531.7	1544.8	1544.7
15°	1525.4	1522.0	1507.0	1520.2	1519.3
17.5°	1494.7	1490.8	1476.0	1486.3	1488.0
20°	1470.2	1467.7	1453.6	1463.2	1464.9
22.5°	1445.0	1441.7	1426.9	1438.0	1439.7
25°	1401.9	1399.3	1387.0	1394.9	1398.4
27.5°	1354.6	1354.6	1343.1	1348.8	1350.9
30°	1323.0	1323.0	1311.6	1315.2	1318.6
32.5°	1289.4	1286.7	1275.9	1278.8	1282.2
35°	1233.7	1232.7	1223.1	1223.1	1224.0
37.5°	1176.0	1173.6	1163.0	1163.8	1168.0
40°	1134.6	1132.9	1122.4	1122.5	1125.9
42.5°	1092.6	1090.8	1081.7	1080.3	1081.7
45°	1027.7	1025.2	1016.4	1014.6	1018.1
47.5°	958.7	959.4	948.9	946.5	948.3
50°	913.9	913.9	903.3	898.1	900.7
52.5°	866.9	865.5	855.0	849.1	855.1
55°	794.7	792.1	783.2	777.3	781.5
57.5°	720.7	716.8	707.9	701.4	703.8
60°	670.2	664.3	655.3	650.2	651.9
62.5°	617.7	614.4	604.9	597.0	600.7
65°	537.1	533.6	525.7	522.2	518.7
67.5°	458.1	455.9	446.9	443.1	440.9
70°	404.8	400.5	394.3	389.9	389.0
72.5°	352.9	347.9	341.7	338.0	335.8
75°	272.5	272.5	266.4	261.1	258.4
77.5°	195.9	196.6	191.6	189.7	188.5
80°	149.0	149.0	144.5	142.8	143.7
82.5°	104.1	106.1	104.6	102.2	100.9
85°	44.7	50.7	50.8	51.7	50.8
87.5°	7.7	12.5	13.3	11.9	10.5
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)