

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: P520114

Luminaire Tested: **SQ4-F-0U-075D-930-1D-UNV-STD-W-8**

Issue Date: 4/29/2021

Test Information

Test Method: LM-79-2019
Report Number: P520114
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-930-1D-UNV-STD-W-8
Description: CORELITE SQ4 SUSPENDED LED LUMINAIRE
DOWNLIGHT 750 LUMENS PER FOOT
DIRECT ONLY
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

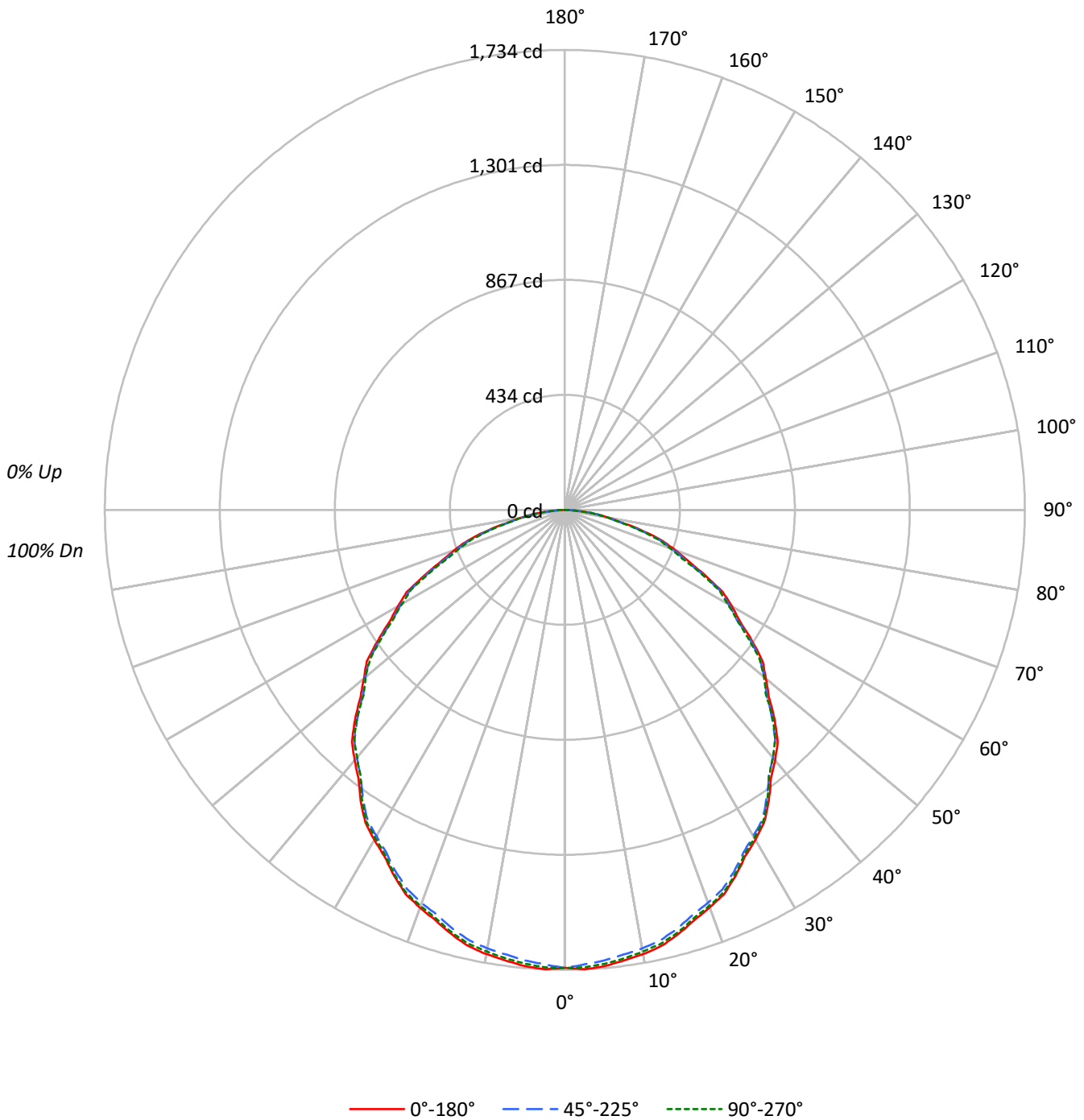
Lumens per Lamp: N/A
Luminaire Lumens: 4715.8 lumens
Efficiency: N/A
Efficacy: 91.6 lumens/watt
Spacing Criteria (0/90/45): 1.24 / 1.24 / 1.35
Luminous Opening: Rectangular (W 0.29' x L: 8' x H: 0')
CIE Type: Direct

Input Watts (W): 51.5
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	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	61	59
4	83	71	62	55	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	46	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°	7969	7969	7969
5°	7999	7898	7956
10°	7967	7864	7923
15°	7906	7808	7876
20°	7835	7743	7804
25°	7748	7669	7725
30°	7650	7567	7609
35°	7550	7470	7506
40°	7422	7347	7338
45°	7295	7203	7224
50°	7092	7036	7036
55°	6927	6840	6777
60°	6705	6588	6531
65°	6343	6223	6138
70°	5956	5809	5661
75°	5360	5164	5053
80°	4285	4200	4163
85°	2567	2901	2985



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	163.1	3.5
10°-20°	464.2	9.8
20°-30°	697.4	14.8
30°-40°	832.2	17.6
40°-50°	853.4	18.1
50°-60°	760.5	16.1
60°-70°	567.0	12.0
70°-80°	307.5	6.5
80°-90°	70.6	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°	1324.7	28.1
0°-40°	2156.8	45.7
0°-60°	3770.7	80.0
0°-90°	4715.8	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4715.8	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1727	1727	1727	1727	1727	
5°	1727	1724	1706	1720	1718	164
15°	1655	1652	1635	1648	1649	467
25°	1522	1521	1507	1515	1518	701
35°	1341	1338	1326	1327	1333	837
45°	1118	1114	1104	1104	1107	861
55°	861	860	850	843	843	769
65°	581	581	570	564	562	578
75°	301	294	290	285	284	316
85°	48	52	55	55	56	68
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1727.4	1727.4	1727.4	1727.4	1727.4
2.5°	1733.7	1730.1	1714.9	1727.4	1726.2
5°	1727.4	1724.4	1705.6	1719.5	1718.1
7.5°	1713.3	1710.0	1691.4	1705.5	1705.2
10°	1700.9	1696.2	1678.9	1693.0	1691.4
12.5°	1684.5	1680.0	1662.6	1676.6	1675.2
15°	1655.4	1652.3	1635.0	1647.6	1649.2
17.5°	1622.2	1616.4	1600.9	1613.2	1614.6
20°	1596.0	1591.3	1577.2	1588.1	1589.7
22.5°	1568.3	1563.8	1549.5	1560.5	1562.1
25°	1522.2	1520.8	1506.6	1514.6	1517.6
27.5°	1472.5	1468.2	1456.8	1462.8	1466.0
30°	1436.1	1433.1	1420.5	1425.2	1428.4
32.5°	1398.5	1396.8	1385.5	1387.7	1392.0
35°	1340.6	1337.5	1326.5	1326.7	1332.8
37.5°	1276.4	1273.1	1263.8	1262.4	1264.8
40°	1232.5	1228.0	1220.0	1218.5	1218.5
42.5°	1187.5	1184.1	1173.7	1170.9	1174.6
45°	1118.2	1113.7	1104.1	1104.2	1107.3
47.5°	1043.4	1041.5	1030.5	1025.6	1026.8
50°	988.2	991.3	980.4	974.3	980.4
52.5°	940.7	938.8	929.1	922.9	925.3
55°	861.3	859.9	850.4	842.6	842.6
57.5°	781.8	777.8	768.1	762.2	766.8
60°	726.7	725.2	714.1	703.3	707.9
62.5°	671.5	668.8	657.7	650.7	654.0
65°	581.1	581.1	570.1	563.8	562.3
67.5°	501.8	494.5	488.3	480.7	478.6
70°	441.6	435.5	430.7	424.3	419.7
72.5°	382.8	379.1	371.8	365.5	364.6
75°	300.7	294.5	289.7	285.0	283.5
77.5°	213.9	212.8	208.3	205.8	206.8
80°	161.3	161.3	158.1	158.1	156.7
82.5°	113.7	114.9	114.3	111.8	111.5
85°	48.5	51.6	54.8	54.8	56.4
87.5°	8.8	14.9	13.8	13.8	13.8
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)