

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: P520121

Luminaire Tested: **SQ4-F-0U-075D-940-1D-UNV-STD-W-6**

Issue Date: 4/29/2021

Test Information

Test Method: LM-79-2019
Report Number: P520121
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-940-1D-UNV-STD-W-6
Description: CORELITE SQ4 SUSPENDED LED LUMINAIRE
DOWNLIGHT 750 LUMENS PER FOOT
DIRECT ONLY
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

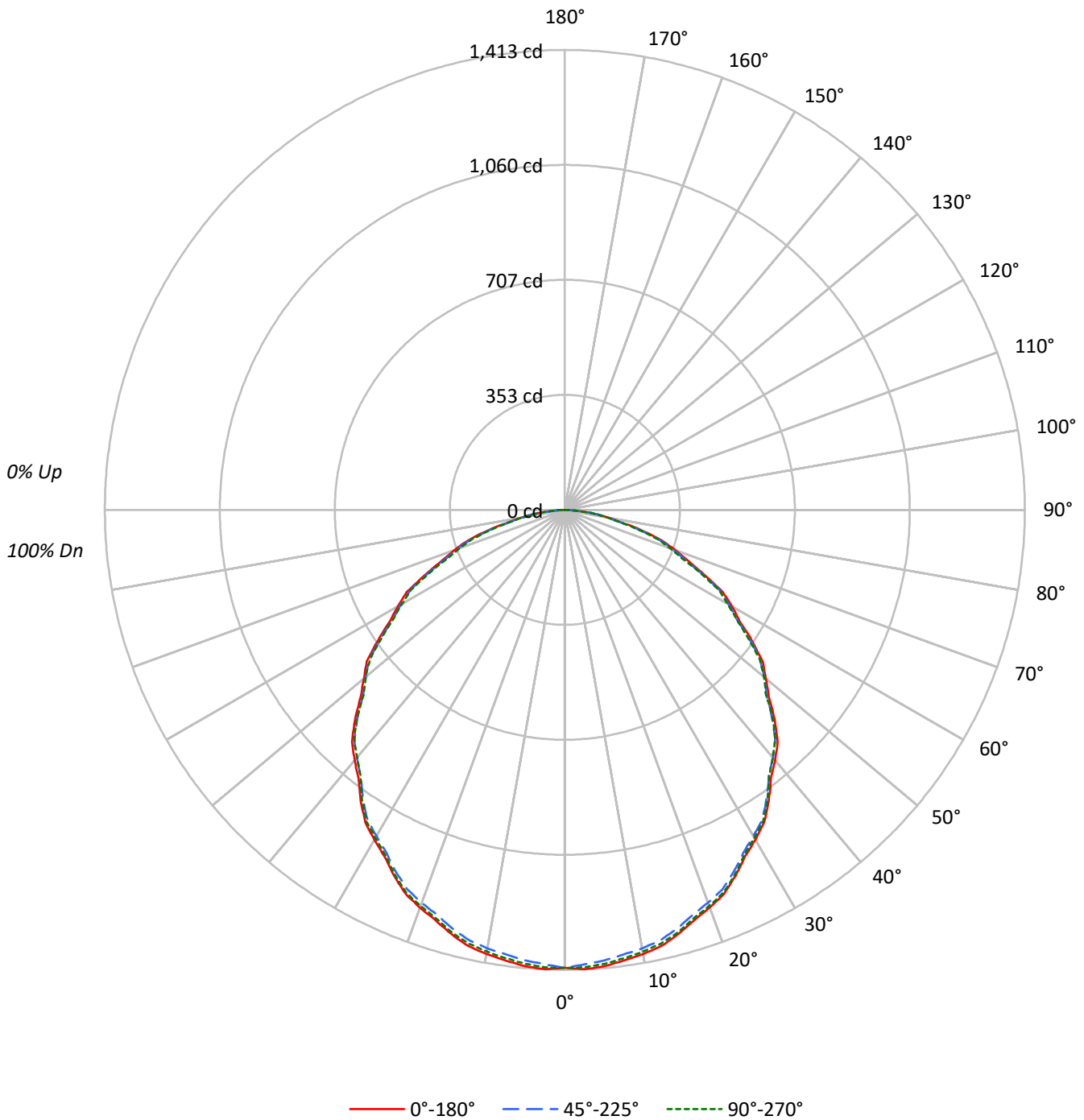
Lumens per Lamp: N/A
Luminaire Lumens: 3842.3 lumens
Efficiency: N/A
Efficacy: 102.5 lumens/watt
Spacing Criteria (0/90/45): 1.24 / 1.24 / 1.35
Luminous Opening: Rectangular (W 0.29' x L: 6' x H: 0')
CIE Type: Direct

Input Watts (W): 37.5
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°	8657	8657	8657
5°	8690	8580	8643
10°	8655	8543	8608
15°	8589	8483	8556
20°	8511	8411	8478
25°	8417	8331	8392
30°	8310	8220	8266
35°	8202	8115	8154
40°	8063	7981	7971
45°	7925	7825	7848
50°	7705	7644	7644
55°	7526	7430	7362
60°	7284	7158	7096
65°	6890	6760	6667
70°	6472	6310	6150
75°	5822	5611	5490
80°	4658	4566	4520
85°	2795	3155	3246



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	132.9	3.5
10°-20°	378.2	9.8
20°-30°	568.2	14.8
30°-40°	678.0	17.6
40°-50°	695.3	18.1
50°-60°	619.6	16.1
60°-70°	462.0	12.0
70°-80°	250.5	6.5
80°-90°	57.6	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°	1079.3	28.1
0°-40°	1757.3	45.7
0°-60°	3072.2	80.0
0°-90°	3842.3	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3842.3	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1408	1408	1408	1408	1408	
5°	1408	1405	1390	1401	1400	134
15°	1349	1346	1332	1342	1344	380
25°	1240	1239	1228	1234	1236	571
35°	1092	1090	1081	1081	1086	682
45°	911	907	900	900	902	701
55°	702	701	693	686	686	627
65°	473	473	464	459	458	471
75°	245	240	236	232	231	257
85°	40	42	45	45	46	56
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1407.5	1407.5	1407.5	1407.5	1407.5
2.5°	1412.6	1409.6	1397.3	1407.5	1406.4
5°	1407.5	1404.9	1389.6	1401.1	1399.8
7.5°	1396.0	1393.2	1378.2	1389.6	1389.4
10°	1385.8	1382.0	1367.9	1379.4	1378.2
12.5°	1372.6	1368.8	1354.7	1366.1	1364.9
15°	1348.8	1346.3	1332.2	1342.5	1343.6
17.5°	1321.7	1317.0	1304.4	1314.4	1315.6
20°	1300.3	1296.6	1285.0	1293.9	1295.2
22.5°	1277.8	1274.1	1262.6	1271.5	1272.8
25°	1240.3	1239.0	1227.5	1234.0	1236.5
27.5°	1199.8	1196.2	1187.0	1191.9	1194.4
30°	1170.1	1167.7	1157.4	1161.3	1163.8
32.5°	1139.5	1138.1	1128.8	1130.7	1134.1
35°	1092.3	1089.8	1080.8	1080.9	1085.9
37.5°	1040.0	1037.2	1029.8	1028.5	1030.5
40°	1004.2	1000.5	994.0	992.8	992.8
42.5°	967.5	964.8	956.3	954.0	957.0
45°	911.1	907.4	899.6	899.6	902.2
47.5°	850.1	848.7	839.6	835.6	836.6
50°	805.2	807.7	798.8	793.8	798.8
52.5°	766.4	764.9	756.9	751.9	753.9
55°	701.8	700.6	692.9	686.5	686.5
57.5°	637.0	633.7	625.8	621.0	624.8
60°	592.1	590.8	581.9	573.0	576.8
62.5°	547.1	545.0	535.9	530.1	532.9
65°	473.4	473.4	464.5	459.4	458.1
67.5°	408.9	402.9	397.9	391.8	390.0
70°	359.9	354.9	350.9	345.7	342.0
72.5°	311.8	308.9	302.9	297.8	297.1
75°	245.0	240.0	236.1	232.2	231.0
77.5°	174.3	173.3	169.8	167.7	168.5
80°	131.5	131.5	128.9	128.8	127.6
82.5°	92.6	93.7	93.2	91.1	90.8
85°	39.6	42.0	44.7	44.7	46.0
87.5°	7.2	12.1	11.2	11.2	11.2
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)