

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: P520101

Luminaire Tested: **SQ4-F-0U-075D-830-1D-UNV-STD-W-6**

Issue Date: 4/29/2021

Test Information

Test Method: LM-79-2019
Report Number: P520101
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-830-1D-UNV-STD-W-6
Description: CORELITE SQ4 SUSPENDED LED LUMINAIRE
DOWNLIGHT 750 LUMENS PER FOOT
DIRECT ONLY
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

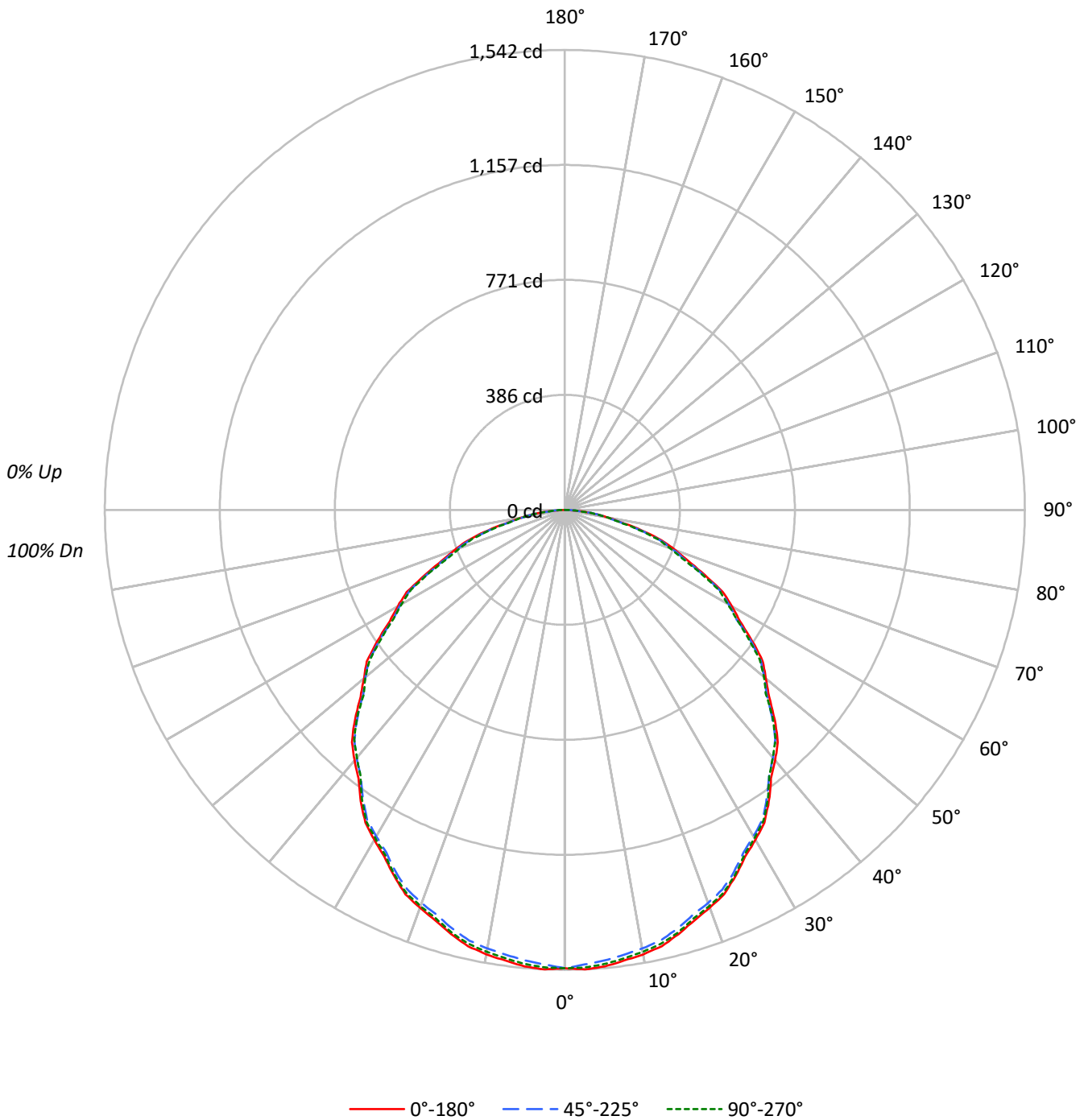
Lumens per Lamp: N/A
Luminaire Lumens: 4195.3 lumens
Efficiency: N/A
Efficacy: 111.9 lumens/watt
Spacing Criteria (0/90/45): 1.24 / 1.24 / 1.35
Luminous Opening: Rectangular (W 0.29' x L: 6' x H: 0')
CIE Type: Direct

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°	9453	9453	9453
5°	9489	9368	9437
10°	9450	9329	9398
15°	9377	9262	9342
20°	9293	9184	9257
25°	9191	9096	9162
30°	9074	8975	9024
35°	8956	8861	8903
40°	8804	8714	8703
45°	8653	8545	8568
50°	8413	8346	8346
55°	8217	8112	8038
60°	7952	7815	7748
65°	7523	7382	7280
70°	7066	6891	6715
75°	6357	6124	5994
80°	5083	4984	4934
85°	3049	3444	3543



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	145.1	3.5
10°-20°	413.0	9.8
20°-30°	620.4	14.8
30°-40°	740.3	17.6
40°-50°	759.2	18.1
50°-60°	676.5	16.1
60°-70°	504.4	12.0
70°-80°	273.5	6.5
80°-90°	62.9	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°	1178.4	28.1
0°-40°	1918.7	45.7
0°-60°	3354.5	80.0
0°-90°	4195.3	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4195.3	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1537	1537	1537	1537	1537	
5°	1537	1534	1517	1530	1528	146
15°	1473	1470	1454	1466	1467	415
25°	1354	1353	1340	1347	1350	624
35°	1193	1190	1180	1180	1186	745
45°	995	991	982	982	985	766
55°	766	765	756	750	750	684
65°	517	517	507	502	500	515
75°	268	262	258	254	252	281
85°	43	46	49	49	50	61
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1536.8	1536.8	1536.8	1536.8	1536.8
2.5°	1542.3	1539.1	1525.6	1536.7	1535.6
5°	1536.8	1534.1	1517.2	1529.8	1528.4
7.5°	1524.2	1521.3	1504.7	1517.2	1517.0
10°	1513.1	1509.0	1493.6	1506.1	1504.7
12.5°	1498.6	1494.5	1479.1	1491.6	1490.3
15°	1472.6	1470.0	1454.5	1465.8	1467.1
17.5°	1443.1	1438.0	1424.2	1435.1	1436.4
20°	1419.7	1415.7	1403.1	1412.8	1414.2
22.5°	1395.2	1391.2	1378.5	1388.3	1389.7
25°	1354.3	1352.9	1340.3	1347.4	1350.0
27.5°	1310.0	1306.1	1296.0	1301.4	1304.1
30°	1277.6	1274.9	1263.7	1268.0	1270.6
32.5°	1244.1	1242.6	1232.5	1234.5	1238.3
35°	1192.7	1189.9	1180.1	1180.2	1185.7
37.5°	1135.5	1132.6	1124.4	1123.0	1125.2
40°	1096.5	1092.4	1085.3	1083.9	1083.9
42.5°	1056.4	1053.3	1044.1	1041.7	1045.0
45°	994.8	990.8	982.3	982.3	985.0
47.5°	928.2	926.6	916.8	912.3	913.4
50°	879.2	881.9	872.2	866.8	872.2
52.5°	836.8	835.2	826.5	821.0	823.2
55°	766.3	764.9	756.5	749.6	749.6
57.5°	695.5	692.0	683.2	678.0	682.2
60°	646.4	645.2	635.3	625.7	629.8
62.5°	597.4	595.0	585.2	578.8	581.9
65°	516.9	516.9	507.2	501.6	500.2
67.5°	446.4	439.9	434.5	427.7	425.8
70°	392.9	387.4	383.2	377.5	373.4
72.5°	340.5	337.2	330.7	325.1	324.3
75°	267.5	262.1	257.7	253.6	252.2
77.5°	190.3	189.2	185.3	183.1	183.9
80°	143.5	143.5	140.7	140.7	139.3
82.5°	101.2	102.2	101.8	99.5	99.2
85°	43.2	46.0	48.8	48.8	50.2
87.5°	7.8	13.3	12.3	12.3	12.3
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)