

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: P562325

Luminaire Tested: **SQ4-PW1-0U-100D-92765-1D-UNV-STD-W-4 (3500K)**

Issue Date: 7/30/2021

Test Information

Test Method: LM-79-2019
Report Number: P562325
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2106-289-3)
Test Lab: INNOVATION CENTER
Issue Date: 7/30/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: CORELITE
Catalog Number: SQ4-PW1-0U-100D-92765-1D-UNV-STD-W-4 (3500K)
Description: CORELITE SQ4 SUSPENDED LED LUMINAIRE WITH PERCEIVE WAVES CONTINUOUS LENS
DOWNLIGHT 1000 LUMENS PER FOOT
DIRECT ONLY
Light Source: 2700K/65000K CCT, 90 CRI LEDS, TUNED TO 3500K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

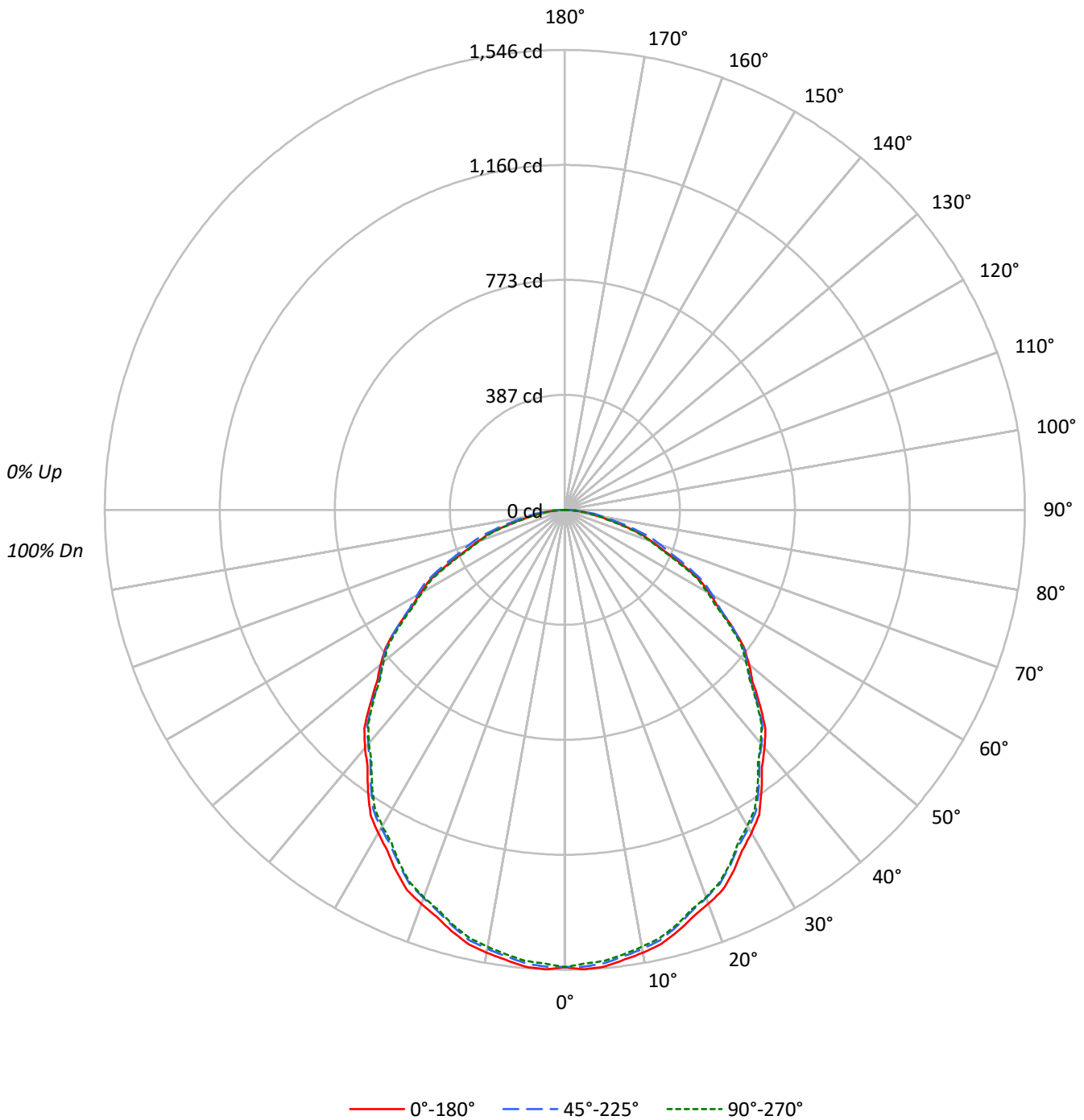
Lumens per Lamp: N/A
Luminaire Lumens: 3911.0 lumens
Efficiency: N/A
Efficacy: 92.2 lumens/watt
Spacing Criteria (0/90/45): 1.22 / 1.19 / 1.31
Luminous Opening: Rectangular (W 0.29' x L: 4' x H: 0')
CIE Type: Direct

Input Watts (W): 42.4
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	105	101	97	107	102	99	95	98	95	92	94	92	89	91	89	87	85
2	100	92	85	80	97	90	84	79	86	81	77	83	79	75	80	76	73	71
3	91	81	73	67	89	79	72	66	76	70	65	74	68	64	71	66	63	60
4	84	72	63	57	81	71	63	56	68	61	56	66	60	55	64	58	54	52
5	77	64	56	49	75	63	55	49	61	54	48	59	53	48	57	52	47	45
6	71	58	49	43	69	57	49	43	55	48	42	54	47	42	52	46	42	40
7	66	53	44	38	64	52	44	38	50	43	38	49	42	37	48	42	37	35
8	62	48	40	34	60	48	40	34	46	39	34	45	38	34	44	38	33	31
9	58	44	36	31	56	44	36	31	43	35	31	42	35	30	41	35	30	28
10	54	41	33	28	53	40	33	28	39	33	28	39	32	28	38	32	28	26

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	14183	14183	14183
5°	14275	14162	14099
10°	14161	14046	13969
15°	14010	13855	13803
20°	13843	13630	13603
25°	13649	13401	13360
30°	13361	13159	13072
35°	12982	12798	12722
40°	12576	12381	12332
45°	12088	11928	11875
50°	11586	11488	11411
55°	11046	11046	10871
60°	10372	10571	10197
65°	9490	9964	9254
70°	8365	9169	8147
75°	7144	8206	6951
80°	5542	6907	5611
85°	3589	5304	4732



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	144.8	3.7
10°-20°	408.7	10.4
20°-30°	606.2	15.5
30°-40°	709.3	18.1
40°-50°	706.1	18.1
50°-60°	609.8	15.6
60°-70°	438.9	11.2
70°-80°	230.2	5.9
80°-90°	57.1	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°	1159.6	29.6
0°-40°	1868.9	47.8
0°-60°	3184.8	81.4
0°-90°	3911.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3911.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1537	1537	1537	1537	1537	
5°	1541	1524	1529	1525	1522	146
15°	1467	1448	1450	1448	1445	413
25°	1341	1318	1316	1308	1312	617
35°	1153	1137	1136	1126	1130	721
45°	926	918	914	912	910	715
55°	687	685	687	677	676	613
65°	435	448	456	438	424	431
75°	200	219	230	215	195	215
85°	34	44	50	47	45	46
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1537.2	1537.2	1537.2	1537.2	1537.2
2.5°	1545.9	1533.1	1537.2	1533.8	1526.4
5°	1541.3	1524.0	1529.1	1524.9	1522.3
7.5°	1525.5	1509.7	1513.4	1509.0	1507.4
10°	1511.5	1495.6	1499.3	1493.8	1491.1
12.5°	1495.2	1478.3	1481.9	1476.5	1474.9
15°	1466.8	1448.2	1450.5	1447.7	1445.1
17.5°	1433.7	1414.9	1415.3	1411.0	1410.4
20°	1409.9	1390.0	1388.2	1382.9	1385.5
22.5°	1383.9	1363.0	1361.1	1353.6	1357.3
25°	1340.8	1318.3	1316.4	1308.4	1312.4
27.5°	1291.0	1268.7	1268.8	1257.5	1261.7
30°	1254.1	1232.9	1235.2	1221.7	1227.0
32.5°	1215.1	1196.1	1197.2	1183.8	1189.1
35°	1152.6	1136.7	1136.3	1125.6	1129.5
37.5°	1088.6	1074.6	1072.4	1066.2	1067.2
40°	1044.2	1032.3	1028.0	1023.9	1023.9
42.5°	997.6	986.8	982.4	979.4	978.4
45°	926.4	918.4	914.2	911.5	910.1
47.5°	856.0	848.5	844.8	842.9	841.6
50°	807.2	801.9	800.4	796.3	795.0
52.5°	758.4	755.3	753.8	748.7	747.3
55°	686.7	685.3	686.7	677.1	675.8
57.5°	611.9	614.0	618.4	605.6	602.4
60°	562.1	567.4	572.9	557.9	552.6
62.5°	511.1	519.6	527.4	510.2	502.7
65°	434.7	448.0	456.4	438.5	423.9
67.5°	361.1	377.5	387.6	368.3	351.9
70°	310.1	328.7	339.9	320.6	302.0
72.5°	265.7	286.4	295.5	277.2	258.7
75°	200.4	219.0	230.2	214.9	195.0
77.5°	142.2	159.7	169.0	155.6	139.2
80°	104.3	122.8	130.0	118.9	105.6
82.5°	73.9	89.3	94.3	87.6	78.6
85°	33.9	44.5	50.1	47.3	44.7
87.5°	8.7	16.1	20.6	20.6	21.7
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)