

Scaled data based on original data using
LM-79-08 Approved Method: Electrical and Photometric Measurements of Solid-State
Lighting Products

Test Report Prepared for

Cooper Lighting Solutions

(formerly Eaton)

Brand: CORELITE

Report Number: P521533

Luminaire Tested: **SQ4-F-0U-100D-93050-1D-UNV-STD-W-4 (4500K)**

Issue Date: 5/5/2021

Test Information

Test Method: LM-79-08
Report Number: P521533
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2101-105-34)
Test Lab: INNOVATION CENTER
Issue Date: 5/5/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: CORELITE
Catalog Number: SQ4-F-0U-100D-93050-1D-UNV-STD-W-4 (4500K)
Description: CORELITE SQ4 SUSPENDED LED LUMINAIRE
DOWNLIGHT 1000 LUMENS PER FOOT
DIRECT ONLY
Light Source: 3000K/5000K CCT, 90 CRI LEDS, TUNED TO 4500K CCT
Ballast/Driver: ELECTRONIC DRIVER

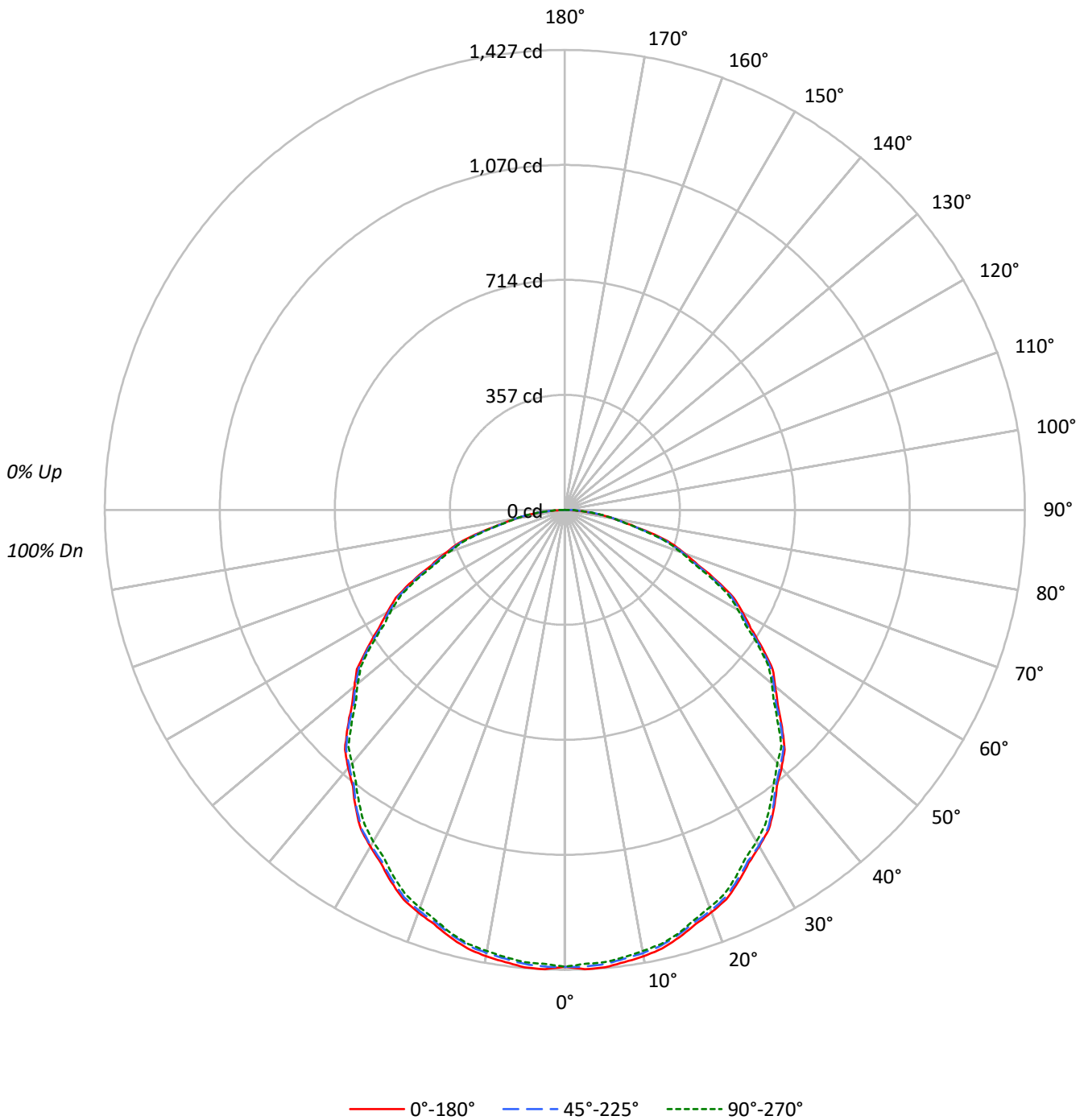
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4046.1 lumens
Efficiency: N/A
Efficacy: 95.4 lumens/watt
Spacing Criteria (0/90/45): 1.27 / 1.25 / 1.38
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	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	94	97	94	91	93	91	88	90	88	86	84				
2	99	90	84	78	96	89	82	77	85	80	75	82	77	73	79	75	72	70				
3	90	79	71	65	87	78	70	64	75	68	63	72	66	62	69	65	61	58				
4	82	70	61	55	80	69	61	54	66	59	53	64	58	53	62	56	52	50				
5	76	63	54	47	74	62	53	47	59	52	46	57	51	46	56	50	45	43				
6	70	56	47	41	68	55	47	41	54	46	40	52	45	40	50	44	40	38				
7	65	51	42	36	63	50	42	36	49	41	36	47	41	35	46	40	35	33				
8	60	47	38	32	59	46	38	32	45	37	32	43	37	32	42	36	31	30				
9	56	43	35	29	55	42	34	29	41	34	29	40	33	29	39	33	28	27				
10	53	39	32	26	51	39	31	26	38	31	26	37	31	26	36	30	26	24				

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	13081	13081	13081
5°	13197	13102	13055
10°	13178	13082	13025
15°	13114	13036	12998
20°	13051	12991	12890
25°	12972	12899	12785
30°	12849	12816	12665
35°	12736	12690	12529
40°	12590	12528	12356
45°	12429	12364	12191
50°	12228	12154	12038
55°	12017	11902	11771
60°	11738	11607	11437
65°	11354	11132	10931
70°	10707	10461	10270
75°	9760	9432	9250
80°	8002	8002	8002
85°	5706	6468	6786



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	134.2	3.3
10°-20°	384.4	9.5
20°-30°	581.5	14.4
30°-40°	700.3	17.3
40°-50°	727.3	18.0
50°-60°	660.1	16.3
60°-70°	503.6	12.4
70°-80°	281.5	7.0
80°-90°	73.3	1.8
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°	1100.1	27.2
0°-40°	1800.4	44.5
0°-60°	3187.7	78.8
0°-90°	4046.1	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4046.1	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1418	1418	1418	1418	1418	
5°	1425	1410	1415	1412	1410	135
15°	1373	1359	1365	1361	1361	387
25°	1274	1261	1267	1256	1256	587
35°	1131	1121	1127	1112	1112	707
45°	953	946	948	934	934	735
55°	747	745	740	732	732	668
65°	520	516	510	503	501	513
75°	274	270	265	260	260	288
85°	54	59	61	62	64	69
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1417.8	1417.8	1417.8	1417.8	1417.8
2.5°	1426.7	1414.8	1418.6	1416.8	1409.6
5°	1424.9	1410.0	1414.7	1411.6	1409.6
7.5°	1415.5	1400.6	1405.4	1401.3	1400.1
10°	1406.6	1391.6	1396.4	1392.3	1390.3
12.5°	1394.4	1380.2	1385.0	1380.1	1379.7
15°	1373.0	1359.1	1364.8	1360.8	1360.8
17.5°	1348.0	1335.0	1341.0	1335.1	1334.1
20°	1329.2	1316.3	1323.1	1313.9	1312.9
22.5°	1308.1	1295.9	1301.9	1291.2	1291.8
25°	1274.3	1261.3	1267.1	1255.9	1255.9
27.5°	1235.4	1222.6	1229.9	1216.4	1215.6
30°	1206.1	1194.1	1203.0	1188.8	1188.8
32.5°	1176.8	1166.4	1172.9	1159.4	1157.0
35°	1130.8	1120.8	1126.7	1112.4	1112.4
37.5°	1080.3	1072.1	1075.2	1062.0	1065.0
40°	1045.3	1036.3	1040.2	1026.9	1025.9
42.5°	1009.4	1001.3	1004.3	991.2	994.2
45°	952.6	945.7	947.6	934.3	934.3
47.5°	895.0	889.9	888.3	876.6	878.6
50°	851.9	849.9	846.8	836.7	838.7
52.5°	812.8	808.4	804.5	795.1	796.3
55°	747.1	745.1	739.9	731.8	731.8
57.5°	684.2	679.8	673.8	665.4	665.4
60°	636.1	634.1	629.0	619.8	619.8
62.5°	590.5	587.7	581.8	573.4	572.6
65°	520.1	516.1	509.9	502.7	500.7
67.5°	446.6	442.4	437.4	430.7	429.5
70°	396.9	392.0	387.8	382.6	380.7
72.5°	346.5	343.9	338.9	333.8	332.6
75°	273.8	269.8	264.6	260.5	259.5
77.5°	197.0	196.4	194.6	192.0	193.0
80°	150.6	151.6	150.6	149.6	150.6
82.5°	109.1	111.7	111.5	111.4	112.4
85°	53.9	58.9	61.1	62.1	64.1
87.5°	15.5	20.2	24.4	25.3	26.1
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)