

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: P521531

Luminaire Tested: **SQ4-F-0U-100D-93050-1D-UNV-STD-W-4 (3500K)**

Issue Date: 5/5/2021

Test Information

Test Method: LM-79-08
Report Number: P521531
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 (3500K)
Description: CORELITE SQ4 SUSPENDED LED LUMINAIRE
DOWNLIGHT 1000 LUMENS PER FOOT
DIRECT ONLY
Light Source: 3000K/5000K CCT, 90 CRI LEDS, TUNED TO 3500K CCT
Ballast/Driver: ELECTRONIC DRIVER

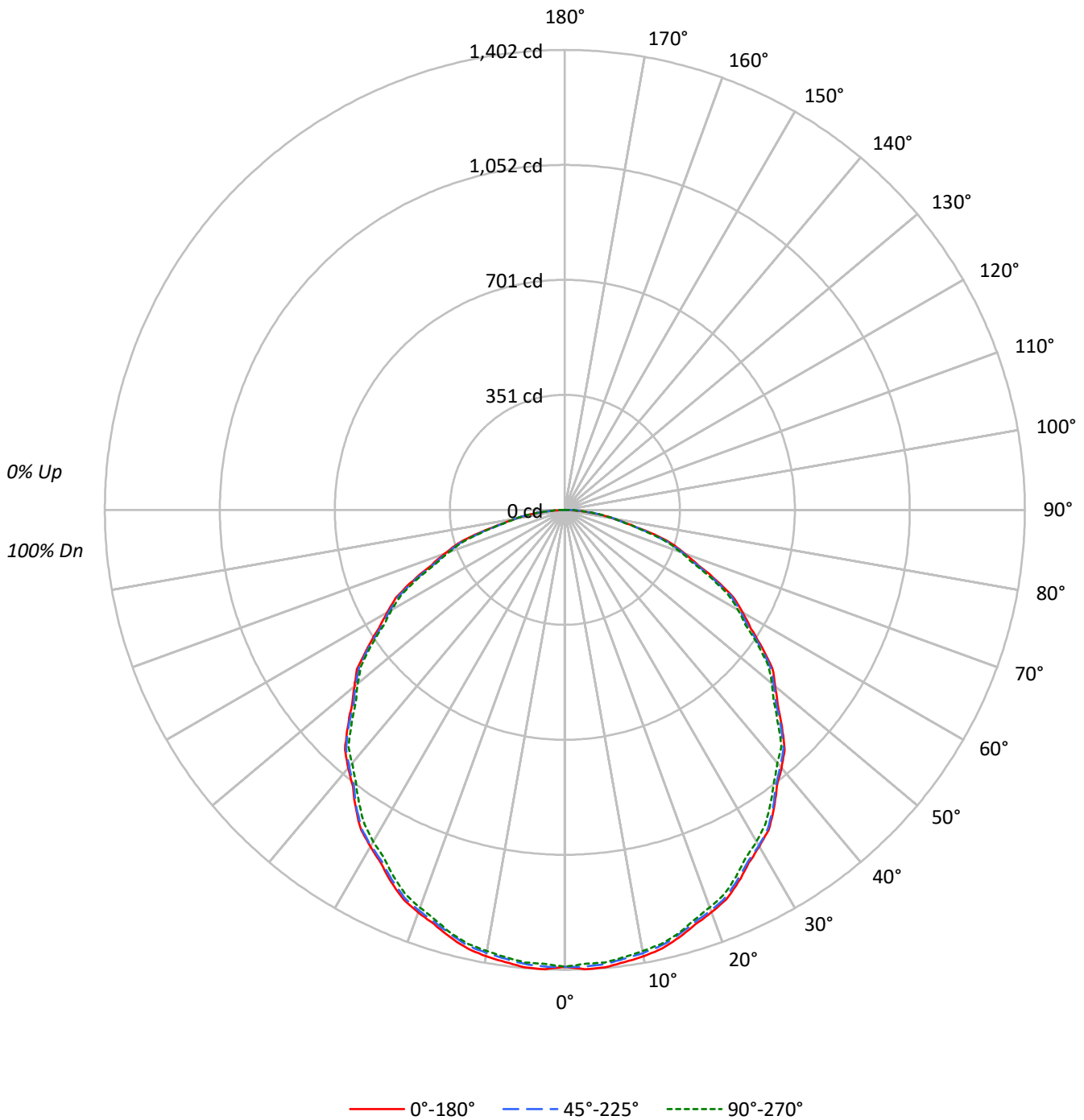
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3975.4 lumens
Efficiency: N/A
Efficacy: 93.5 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): 42.5
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	50	30	10	0	
RCR																						
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100			100	
1	109	104	100	96	106	102	98	94	97	94	91	93	91	88	90	88	86	84			84	
2	99	90	84	78	96	89	82	77	85	80	75	82	77	73	79	75	72	70			70	
3	90	79	71	65	87	78	70	64	75	68	63	72	66	62	69	65	61	58			58	
4	82	70	61	55	80	69	61	54	66	59	53	64	58	53	62	56	52	50			50	
5	76	63	54	47	74	62	53	47	59	52	46	57	51	46	56	50	45	43			43	
6	70	56	47	41	68	55	47	41	54	46	40	52	45	40	50	44	40	38			38	
7	65	51	42	36	63	50	42	36	49	41	36	47	41	35	46	40	35	33			33	
8	60	47	38	32	59	46	38	32	45	37	32	43	37	32	42	36	31	30			30	
9	56	43	35	29	55	42	34	29	41	34	29	40	33	29	39	33	28	27			27	
10	53	39	32	26	51	39	31	26	38	31	26	37	31	26	36	30	26	24			24	

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	12852	12852	12852
5°	12966	12873	12827
10°	12947	12854	12797
15°	12885	12809	12771
20°	12823	12764	12666
25°	12745	12674	12562
30°	12624	12592	12443
35°	12513	12468	12311
40°	12369	12309	12140
45°	12213	12148	11978
50°	12014	11942	11827
55°	11807	11694	11565
60°	11533	11404	11238
65°	11156	10937	10741
70°	10520	10278	10089
75°	9589	9268	9090
80°	7863	7863	7863
85°	5611	6352	6669



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	131.9	3.3
10°-20°	377.7	9.5
20°-30°	571.3	14.4
30°-40°	688.1	17.3
40°-50°	714.6	18.0
50°-60°	648.5	16.3
60°-70°	494.8	12.4
70°-80°	276.6	7.0
80°-90°	72.0	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°	1080.9	27.2
0°-40°	1768.9	44.5
0°-60°	3132.0	78.8
0°-90°	3975.4	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3975.4	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1393	1393	1393	1393	1393	
5°	1400	1385	1390	1387	1385	133
15°	1349	1335	1341	1337	1337	381
25°	1252	1239	1245	1234	1234	576
35°	1111	1101	1107	1093	1093	694
45°	936	929	931	918	918	722
55°	734	732	727	719	719	657
65°	511	507	501	494	492	504
75°	269	265	260	256	255	283
85°	53	58	60	61	63	68
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1393.0	1393.0	1393.0	1393.0	1393.0
2.5°	1401.8	1390.1	1393.8	1392.0	1385.0
5°	1400.0	1385.3	1390.0	1387.0	1385.0
7.5°	1390.8	1376.1	1380.8	1376.8	1375.6
10°	1382.0	1367.3	1372.0	1368.0	1366.0
12.5°	1370.0	1356.1	1360.8	1356.0	1355.6
15°	1349.0	1335.3	1341.0	1337.0	1337.0
17.5°	1324.4	1311.7	1317.6	1311.8	1310.8
20°	1306.0	1293.3	1300.0	1291.0	1290.0
22.5°	1285.2	1273.3	1279.2	1268.6	1269.2
25°	1252.0	1239.3	1245.0	1234.0	1234.0
27.5°	1213.8	1201.3	1208.4	1195.2	1194.4
30°	1185.0	1173.3	1182.0	1168.0	1168.0
32.5°	1156.2	1146.0	1152.4	1139.1	1136.8
35°	1111.0	1101.2	1107.0	1093.0	1093.0
37.5°	1061.4	1053.4	1056.4	1043.5	1046.4
40°	1027.0	1018.2	1022.0	1009.0	1008.0
42.5°	991.8	983.8	986.8	973.9	976.8
45°	936.0	929.2	931.0	918.0	918.0
47.5°	879.4	874.3	872.8	861.2	863.2
50°	837.0	835.0	832.0	822.0	824.0
52.5°	798.6	794.3	790.4	781.2	782.4
55°	734.0	732.0	727.0	719.0	719.0
57.5°	672.2	667.9	662.0	653.8	653.8
60°	625.0	623.0	618.0	609.0	609.0
62.5°	580.2	577.5	571.6	563.4	562.6
65°	511.0	507.1	501.0	494.0	492.0
67.5°	438.8	434.7	429.8	423.2	422.0
70°	390.0	385.1	381.0	376.0	374.0
72.5°	340.4	337.9	333.0	328.0	326.8
75°	269.0	265.1	260.0	256.0	255.0
77.5°	193.6	193.0	191.2	188.6	189.6
80°	148.0	149.0	148.0	147.0	148.0
82.5°	107.2	109.7	109.6	109.4	110.4
85°	53.0	57.9	60.0	61.0	63.0
87.5°	15.2	19.9	24.0	24.8	25.6
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)