

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: P563503

Luminaire Tested: **SQ4-PP3-0U-075D-930-1D-UNV-STD-W-6**

Issue Date: 7/30/2021

Test Information

Test Method: LM-79-2019
Report Number: P563503
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2103-172-1)
Test Lab: INNOVATION CENTER
Issue Date: 7/30/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: CORELITE
Catalog Number: SQ4-PP3-0U-075D-930-1D-UNV-STD-W-6
Description: CORELITE SQ4 SUSPENDED LED LUMINAIRE WITH PERCEIVE PRISM CONTINUOUS LENS.
DOWNLIGHT 750 LUMENS PER FOOT
DIRECT ONLY
Light Source: 3000K CCT, 90 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

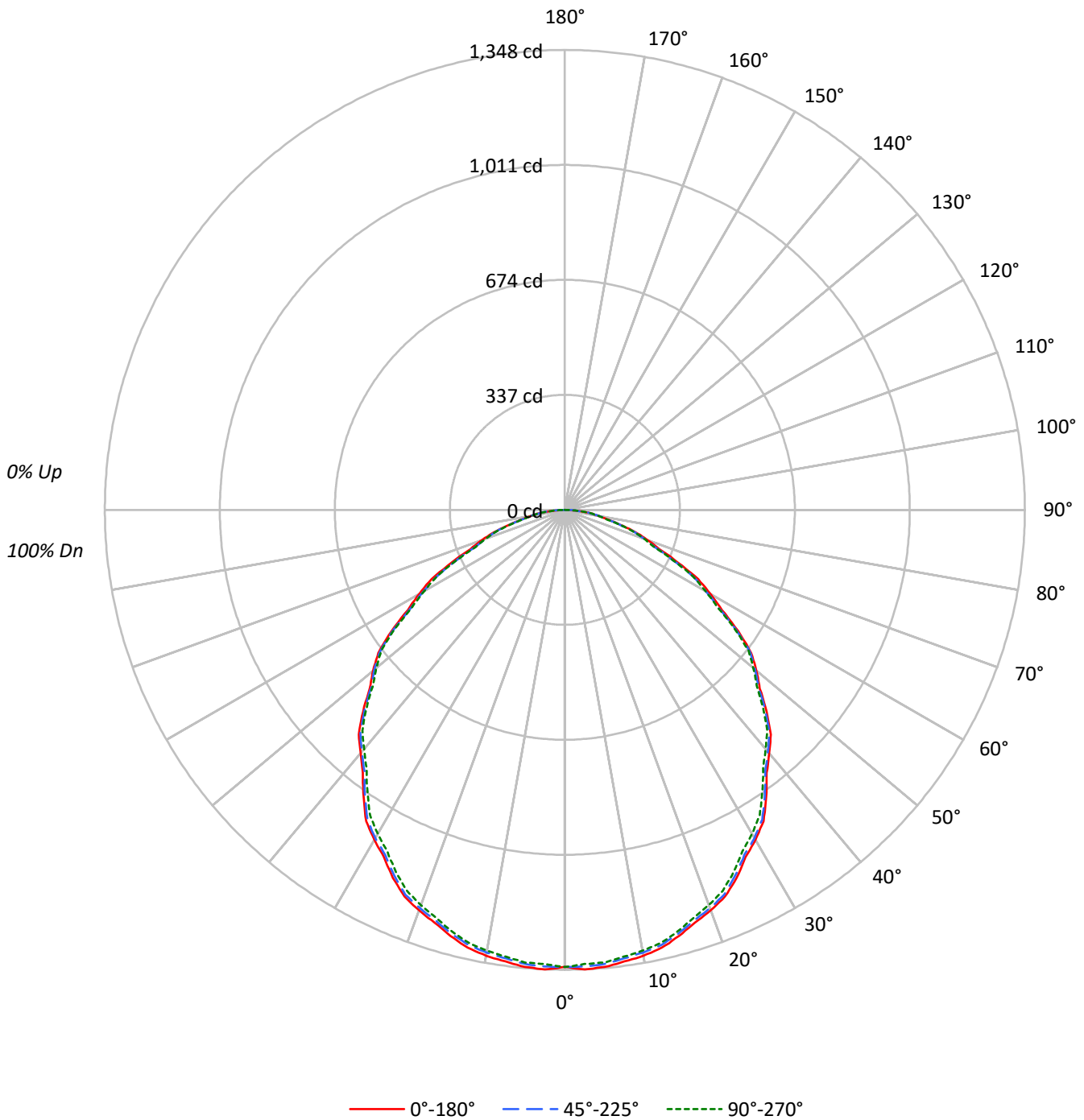
Lumens per Lamp: N/A
Luminaire Lumens: 3429.4 lumens
Efficiency: N/A
Efficacy: 84.9 lumens/watt
Spacing Criteria (0/90/45): 1.24 / 1.22 / 1.33
Luminous Opening: Rectangular (W 0.29' x L: 6' x H: 0')
CIE Type: Direct

Input Watts (W): 40.4
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				100
1	109	105	101	97	107	103	99	96	98	95	93	95	92	90	91	89	87	85				85
2	100	92	86	80	97	90	84	79	87	82	77	84	79	76	81	77	74	72				72
3	92	81	74	67	89	80	73	67	77	71	66	74	69	64	72	67	63	61				61
4	84	72	64	57	82	71	63	57	69	62	56	66	60	56	64	59	55	53				53
5	77	65	56	50	75	64	56	49	62	54	49	60	53	48	58	52	48	46				46
6	72	59	50	44	70	58	49	43	56	49	43	54	48	43	53	47	42	40				40
7	66	53	45	39	65	52	44	39	51	44	38	49	43	38	48	42	38	36				36
8	62	49	40	35	60	48	40	34	47	39	34	45	39	34	44	38	34	32				32
9	58	45	37	31	56	44	36	31	43	36	31	42	35	31	41	35	31	29				29
10	54	41	34	28	53	41	33	28	40	33	28	39	33	28	38	32	28	26				26

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	8241	8241	8241
5°	8302	8251	8222
10°	8288	8229	8192
15°	8233	8188	8143
20°	8179	8132	8071
25°	8082	8026	7946
30°	7932	7890	7790
35°	7724	7672	7574
40°	7477	7430	7345
45°	7273	7222	7150
50°	7012	6967	6899
55°	6649	6561	6510
60°	6052	5880	5851
65°	5333	5110	5094
70°	4604	4413	4413
75°	3964	3907	3852
80°	3493	3535	3454
85°	2738	2985	2985



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	126.7	3.7
10°-20°	361.8	10.5
20°-30°	541.9	15.8
30°-40°	635.6	18.5
40°-50°	637.6	18.6
50°-60°	543.9	15.9
60°-70°	354.7	10.3
70°-80°	178.0	5.2
80°-90°	49.3	1.4
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°	1030.4	30.0
0°-40°	1666.0	48.6
0°-60°	2847.5	83.0
0°-90°	3429.4	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3429.4	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1340	1340	1340	1340	1340	
5°	1345	1332	1336	1332	1332	128
15°	1293	1280	1286	1281	1279	365
25°	1191	1177	1183	1172	1171	548
35°	1029	1018	1022	1010	1009	643
45°	836	830	830	822	822	644
55°	620	618	612	608	607	551
65°	366	360	351	349	350	366
75°	167	167	164	163	162	181
85°	39	42	42	42	42	47
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1339.9	1339.9	1339.9	1339.9	1339.9
2.5°	1348.4	1337.3	1339.9	1337.9	1332.4
5°	1344.6	1332.0	1336.4	1331.7	1331.7
7.5°	1335.4	1321.7	1326.1	1321.4	1321.1
10°	1327.0	1313.2	1317.6	1312.9	1311.7
12.5°	1314.8	1301.0	1306.3	1300.7	1300.5
15°	1292.9	1280.3	1285.9	1281.1	1278.8
17.5°	1268.3	1254.5	1261.2	1254.6	1253.7
20°	1249.5	1235.7	1242.4	1233.0	1233.0
22.5°	1226.9	1213.2	1220.8	1208.6	1208.6
25°	1190.8	1177.0	1182.6	1172.0	1170.8
27.5°	1147.8	1134.2	1140.0	1128.1	1127.8
30°	1116.8	1104.2	1110.9	1098.0	1096.8
32.5°	1083.0	1071.3	1076.2	1063.2	1062.1
35°	1028.7	1018.4	1021.7	1009.9	1008.7
37.5°	971.6	961.1	964.8	954.7	954.3
40°	931.2	924.4	925.4	917.1	914.8
42.5°	893.7	885.9	886.9	878.6	878.2
45°	836.1	830.4	830.3	822.0	822.0
47.5°	775.1	770.7	769.4	762.6	762.4
50°	732.8	729.3	728.1	722.2	721.0
52.5°	688.6	687.0	683.0	678.1	677.8
55°	620.0	617.7	611.8	608.3	607.1
57.5°	545.6	541.0	534.3	529.2	530.1
60°	492.0	487.5	478.0	475.6	475.6
62.5°	440.4	434.9	425.3	422.1	423.9
65°	366.4	359.5	351.1	348.8	350.0
67.5°	299.2	293.0	284.0	283.9	283.0
70°	256.0	252.6	245.4	245.4	245.4
72.5°	217.5	215.9	210.7	210.7	209.7
75°	166.8	166.8	164.4	163.2	162.1
77.5°	124.9	125.4	124.2	123.0	121.0
80°	98.6	100.9	99.8	98.6	97.5
82.5°	74.2	76.5	76.3	74.2	74.0
85°	38.8	42.2	42.3	42.3	42.3
87.5°	10.3	14.0	15.0	15.1	16.0
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)