

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: P563390

Luminaire Tested: **SQ4-PP3-075U-050D-940-1D-UNV-STD-W-4**

Issue Date: 7/30/2021

Test Information

Test Method: LM-79-2019
Report Number: P563390
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1910-536-22, 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-PP3-075U-050D-940-1D-UNV-STD-W-4
Description: CORELITE SQ4 SUSPENDED LED LUMINAIRE WITH PERCEIVE PRISM CONTINUOUS LENS.
DOWNLIGHT 500 LUMENS PER FOOT
UPLIGHT 750 LUMENS PER FOOT
Light Source: 4000K CCT, 90 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

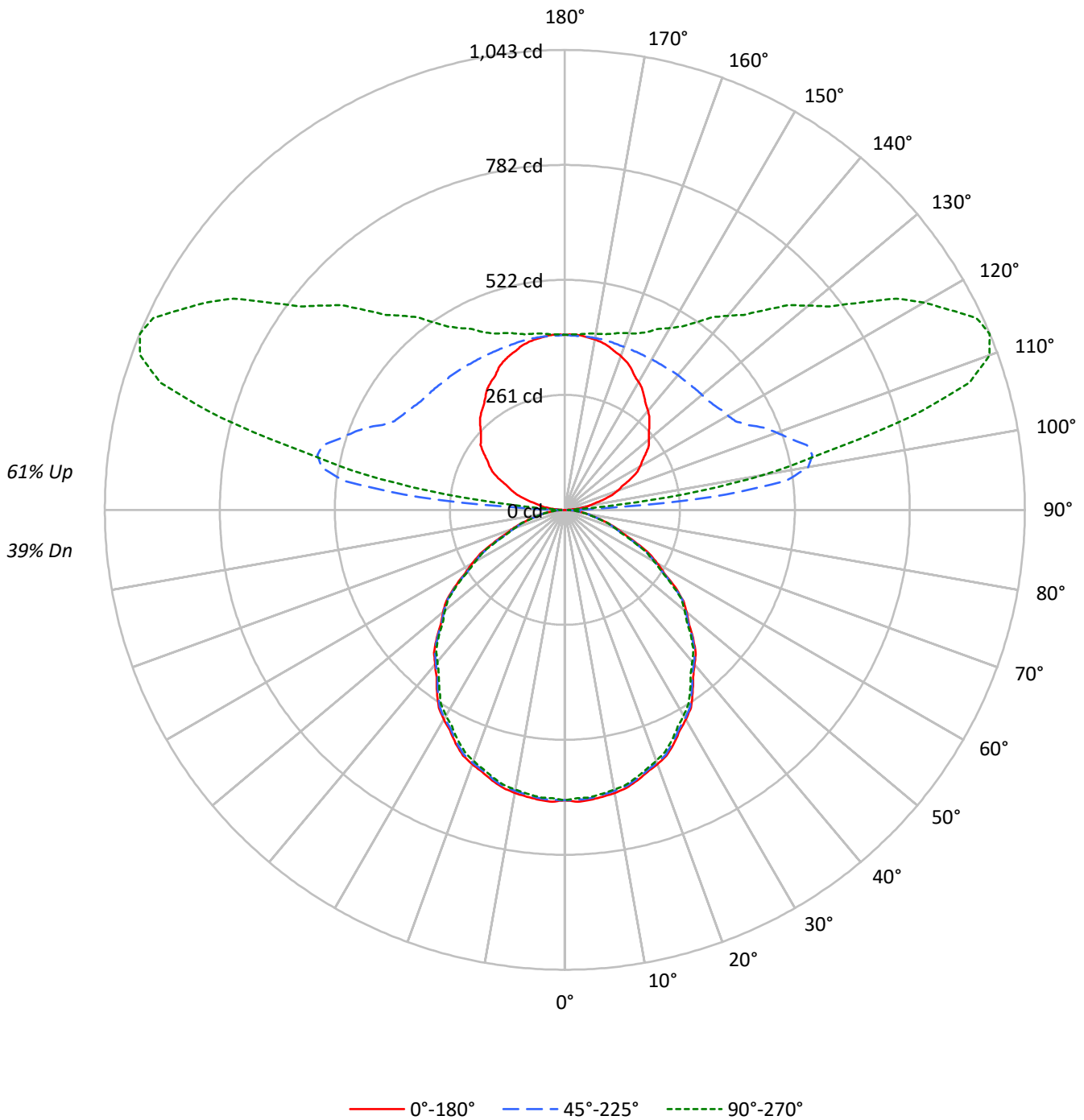
Lumens per Lamp: N/A
Luminaire Lumens: 4274.2 lumens
Efficiency: N/A
Efficacy: 123.2 lumens/watt
Spacing Criteria (0/90/45): 1.24 / 1.22 / 1.33
Luminous Opening: Rectangular (W 0.29' x L: 4' x H: 0')
CIE Type: Semi-Indirect

Input Watts (W): 34.7
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	105	105	105	105	95	95	95	95	77	77	77	61	61	61	46	46	46	39
1	96	91	88	84	87	83	80	77	68	66	64	54	53	51	41	40	40	34
2	87	80	74	69	79	73	68	64	60	56	53	48	45	43	36	35	33	28
3	80	70	63	58	72	64	58	53	53	48	45	42	39	37	32	30	29	24
4	73	62	55	49	66	57	50	45	47	42	38	38	34	31	29	27	25	21
5	67	55	47	42	60	51	44	39	42	37	33	34	30	27	26	24	22	18
6	61	50	42	36	56	46	39	34	38	33	29	30	27	24	24	21	19	16
7	57	45	37	32	51	41	34	29	34	29	25	28	24	21	22	19	17	14
8	53	41	33	28	48	37	31	26	31	26	22	25	21	19	20	17	15	13
9	49	37	30	25	44	34	28	23	28	23	20	23	19	17	18	16	14	11
10	46	34	27	22	42	31	25	21	26	21	18	21	18	15	17	14	12	10

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	6075	6075	6075
5°	6119	6082	6061
10°	6109	6065	6039
15°	6068	6036	6002
20°	6028	5994	5949
25°	5956	5916	5857
30°	5847	5816	5742
35°	5694	5654	5583
40°	5511	5476	5414
45°	5361	5324	5270
50°	5169	5136	5085
55°	4901	4835	4798
60°	4462	4334	4312
65°	3930	3766	3755
70°	3394	3253	3253
75°	2920	2880	2838
80°	2577	2603	2545
85°	2011	2202	2202



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	62.3	1.5
10°-20°	177.8	4.2
20°-30°	266.3	6.2
30°-40°	312.3	7.3
40°-50°	313.3	7.3
50°-60°	267.3	6.3
60°-70°	174.3	4.1
70°-80°	87.5	2.0
80°-90°	25.2	0.6
90°-100°	187.4	4.4
100°-110°	515.5	12.1
110°-120°	532.1	12.4
120°-130°	426.3	10.0
130°-140°	334.8	7.8
140°-150°	256.6	6.0
150°-160°	184.5	4.3
160°-170°	112.8	2.6
170°-180°	38.0	0.9
0°-30°	506.3	11.8
0°-40°	818.6	19.2
0°-60°	1399.2	32.7
0°-90°	1686.2	39.4
90°-120°	1235.0	28.9
90°-150°	2252.7	52.7
90°-180°	2588.0	60.5
0°-180°	4274.2	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	658	658	658	658	658	
5°	661	654	657	654	654	63
15°	635	629	632	630	628	179
25°	585	578	581	576	575	269
35°	506	500	502	496	496	316
45°	411	408	408	404	404	316
55°	305	304	301	299	298	271
65°	180	177	172	171	172	180
75°	82	82	81	80	80	89
85°	19	21	21	21	21	22
90°	1	3	6	8	8	3
95°	28	102	331	142	90	29
105°	92	142	568	865	807	97
115°	163	199	456	907	1030	161
125°	225	256	413	699	819	201
135°	271	301	402	566	640	209
145°	314	335	396	482	519	197
155°	355	367	393	433	446	163
165°	384	389	395	411	413	108
175°	397	398	396	401	400	38
180°	397	397	397	397	397	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	658.4	658.4	658.4	658.4	658.4
2.5°	662.6	657.1	658.4	657.4	654.7
5°	660.7	654.5	656.7	654.4	654.4
7.5°	656.2	649.4	651.6	649.3	649.2
10°	652.1	645.3	647.4	645.1	644.6
12.5°	646.1	639.3	641.9	639.1	639.0
15°	635.3	629.1	631.9	629.5	628.4
17.5°	623.2	616.4	619.7	616.5	616.1
20°	614.0	607.2	610.5	605.9	605.9
22.5°	602.9	596.1	599.9	593.9	593.9
25°	585.1	578.4	581.1	575.9	575.3
27.5°	564.0	557.3	560.2	554.3	554.2
30°	548.8	542.6	545.9	539.5	539.0
32.5°	532.2	526.4	528.8	522.4	521.9
35°	505.5	500.4	502.0	496.2	495.7
37.5°	477.4	472.3	474.1	469.1	468.9
40°	457.6	454.2	454.7	450.6	449.5
42.5°	439.1	435.3	435.8	431.7	431.5
45°	410.9	408.0	408.0	403.9	403.9
47.5°	380.9	378.7	378.1	374.7	374.6
50°	360.1	358.4	357.8	354.9	354.3
52.5°	338.4	337.6	335.6	333.2	333.1
55°	304.7	303.6	300.6	298.9	298.3
57.5°	268.1	265.8	262.6	260.0	260.5
60°	241.8	239.5	234.9	233.7	233.7
62.5°	216.4	213.7	209.0	207.4	208.3
65°	180.0	176.7	172.5	171.4	172.0
67.5°	147.0	144.0	139.5	139.5	139.1
70°	125.8	124.1	120.6	120.6	120.6
72.5°	106.9	106.1	103.5	103.5	103.1
75°	81.9	81.9	80.8	80.2	79.6
77.5°	61.4	61.6	61.1	60.5	59.4
80°	48.5	49.6	49.0	48.5	47.9
82.5°	36.5	37.6	37.5	36.5	36.4
85°	19.0	20.7	20.8	20.8	20.8
87.5°	5.2	7.5	8.6	8.9	9.4
90°	0.8	3.3	5.9	7.6	7.6
92.5°	11.7	49.8	86.4	33.2	27.2
95°	27.9	102.3	331.3	141.7	90.4
97.5°	45.5	113.4	505.6	389.6	274.9
100°	58.3	120.3	560.4	565.6	461.5
102.5°	70.5	128.5	574.6	701.8	606.2
105°	92.1	141.7	568.0	865.1	807.2
107.5°	112.8	158.0	535.7	945.1	962.2
110°	127.6	169.0	511.4	964.9	1024.5



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	141.2	181.2	487.0	952.1	1042.7
115°	163.1	198.7	455.6	907.2	1029.5
117.5°	184.1	216.8	435.6	844.2	982.5
120°	196.9	228.4	426.9	796.9	939.9
122.5°	208.4	239.8	420.8	755.5	891.2
125°	224.8	256.2	413.3	699.2	819.1
127.5°	240.4	270.3	408.4	652.2	757.4
130°	248.5	279.1	405.7	624.3	720.2
132.5°	258.0	288.6	403.7	599.7	686.4
135°	271.3	301.1	401.5	565.5	639.9
137.5°	283.8	311.4	399.6	537.8	599.1
140°	293.3	318.9	399.0	519.4	574.8
142.5°	301.4	325.1	397.6	503.0	550.4
145°	313.6	335.1	395.6	481.8	519.0
147.5°	326.6	345.1	394.6	463.0	492.8
150°	334.7	351.3	393.9	452.7	475.9
152.5°	342.2	357.4	393.2	443.9	463.0
155°	355.0	366.6	393.0	433.1	445.5
157.5°	364.3	373.7	393.0	424.2	432.8
160°	371.1	378.5	393.0	419.4	426.0
162.5°	376.5	382.6	393.7	415.3	420.6
165°	383.7	388.7	394.7	410.9	413.3
167.5°	388.8	392.6	395.6	407.1	407.8
170°	392.2	394.7	395.6	405.7	405.7
172.5°	394.9	396.1	395.6	403.7	403.0
175°	397.3	398.1	395.6	400.6	399.8
177.5°	397.9	397.9	395.2	399.3	397.9
180°	397.3	397.3	397.3	397.3	397.3

(END OF REPORT)