

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: P563386

Luminaire Tested: **SQ4-PP3-075U-050D-935-1D-UNV-STD-W-4**

Issue Date: 7/30/2021

Test Information

Test Method: LM-79-2019
Report Number: P563386
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-935-1D-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: 3500K CCT, 90 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

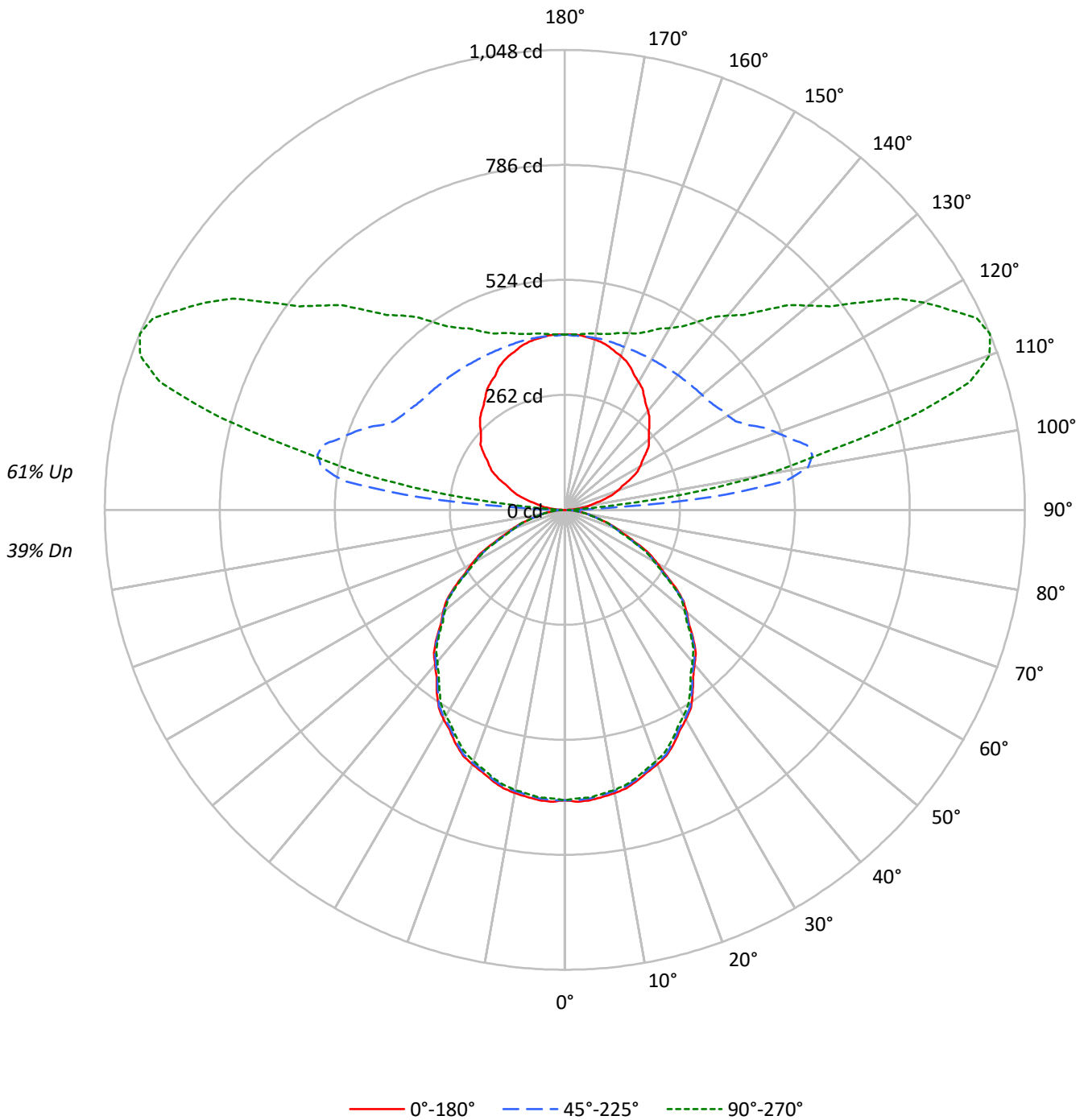
Lumens per Lamp: N/A
Luminaire Lumens: 4296.0 lumens
Efficiency: N/A
Efficacy: 123.8 lumens/watt
Spacing Criteria (0/90/45): 1.24 / 1.22 / 1.33
Luminous Opening: Rectangular (W 0.29' x L: 4' x H: 0')
CIE Type: Semi-Indirect

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°	6106	6106	6106
5°	6151	6113	6091
10°	6140	6097	6070
15°	6100	6066	6033
20°	6059	6025	5979
25°	5987	5946	5887
30°	5876	5846	5771
35°	5723	5683	5611
40°	5539	5504	5441
45°	5389	5351	5297
50°	5195	5161	5111
55°	4925	4861	4824
60°	4484	4357	4334
65°	3951	3786	3772
70°	3410	3269	3269
75°	2937	2895	2852
80°	2588	2619	2556
85°	2022	2212	2212



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	62.6	1.5
10°-20°	178.7	4.2
20°-30°	267.6	6.2
30°-40°	313.9	7.3
40°-50°	314.9	7.3
50°-60°	268.6	6.3
60°-70°	175.2	4.1
70°-80°	87.9	2.0
80°-90°	25.3	0.6
90°-100°	188.3	4.4
100°-110°	518.1	12.1
110°-120°	534.8	12.4
120°-130°	428.5	10.0
130°-140°	336.5	7.8
140°-150°	257.9	6.0
150°-160°	185.4	4.3
160°-170°	113.4	2.6
170°-180°	38.2	0.9
0°-30°	508.9	11.8
0°-40°	822.8	19.2
0°-60°	1406.3	32.7
0°-90°	1694.8	39.4
90°-120°	1241.3	28.9
90°-150°	2264.2	52.7
90°-180°	2601.0	60.5
0°-180°	4296.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	662	662	662	662	662	
5°	664	658	660	658	658	63
15°	639	632	635	633	632	180
25°	588	581	584	579	578	270
35°	508	503	505	499	498	317
45°	413	410	410	406	406	318
55°	306	305	302	300	300	272
65°	181	178	173	172	173	181
75°	82	82	81	81	80	89
85°	19	21	21	21	21	23
90°	1	3	6	8	8	3
95°	28	103	333	142	91	30
105°	93	142	571	870	811	98
115°	164	200	458	912	1035	162
125°	226	258	415	703	823	202
135°	273	303	404	568	643	210
145°	315	337	398	484	522	198
155°	357	368	395	435	448	164
165°	386	391	397	413	415	109
175°	399	400	398	403	402	38
180°	399	399	399	399	399	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	661.8	661.8	661.8	661.8	661.8
2.5°	665.9	660.5	661.8	660.8	658.1
5°	664.1	657.9	660.0	657.7	657.7
7.5°	659.6	652.8	654.9	652.6	652.5
10°	655.4	648.6	650.8	648.4	647.9
12.5°	649.4	642.6	645.2	642.4	642.3
15°	638.6	632.3	635.1	632.7	631.6
17.5°	626.4	619.6	622.9	619.7	619.2
20°	617.1	610.3	613.6	609.0	609.0
22.5°	606.0	599.2	603.0	596.9	596.9
25°	588.1	581.3	584.1	578.8	578.3
27.5°	566.9	560.2	563.1	557.1	557.0
30°	551.6	545.3	548.7	542.3	541.7
32.5°	534.9	529.1	531.5	525.1	524.5
35°	508.1	503.0	504.6	498.8	498.2
37.5°	479.9	474.7	476.5	471.5	471.3
40°	459.9	456.5	457.0	452.9	451.8
42.5°	441.4	437.5	438.0	433.9	433.7
45°	413.0	410.1	410.1	406.0	406.0
47.5°	382.8	380.6	380.0	376.6	376.5
50°	361.9	360.2	359.6	356.7	356.1
52.5°	340.1	339.3	337.3	334.9	334.8
55°	306.2	305.1	302.2	300.4	299.9
57.5°	269.5	267.2	263.9	261.4	261.8
60°	243.0	240.7	236.1	234.9	234.9
62.5°	217.5	214.8	210.1	208.5	209.4
65°	181.0	177.6	173.4	172.3	172.8
67.5°	147.8	144.7	140.2	140.2	139.8
70°	126.4	124.7	121.2	121.2	121.2
72.5°	107.4	106.6	104.1	104.0	103.6
75°	82.4	82.4	81.2	80.6	80.0
77.5°	61.7	61.9	61.4	60.8	59.7
80°	48.7	49.9	49.3	48.7	48.1
82.5°	36.7	37.8	37.7	36.7	36.5
85°	19.1	20.8	20.9	20.9	20.9
87.5°	5.3	7.6	8.6	9.0	9.4
90°	0.8	3.3	5.9	7.6	7.6
92.5°	11.7	50.1	86.8	33.3	27.4
95°	28.0	102.8	333.0	142.4	90.9
97.5°	45.7	114.0	508.2	391.6	276.3
100°	58.6	120.9	563.3	568.5	463.9
102.5°	70.9	129.2	577.5	705.3	609.3
105°	92.6	142.4	570.9	869.5	811.3
107.5°	113.3	158.9	538.5	949.9	967.2
110°	128.3	169.8	514.0	969.9	1029.7



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	141.9	182.1	489.5	957.0	1048.0
115°	164.0	199.7	457.9	911.8	1034.8
117.5°	185.0	217.9	437.9	848.5	987.5
120°	198.0	229.5	429.0	801.0	944.7
122.5°	209.5	241.1	422.9	759.4	895.8
125°	226.0	257.6	415.4	702.8	823.2
127.5°	241.6	271.7	410.5	655.6	761.2
130°	249.8	280.5	407.8	627.5	723.8
132.5°	259.3	290.0	405.8	602.8	689.9
135°	272.7	302.6	403.5	568.4	643.1
137.5°	285.3	313.0	401.7	540.5	602.2
140°	294.8	320.6	401.0	522.1	577.7
142.5°	303.0	326.7	399.6	505.6	553.2
145°	315.2	336.8	397.6	484.3	521.6
147.5°	328.3	346.9	396.6	465.4	495.3
150°	336.4	353.0	395.9	455.1	478.3
152.5°	343.9	359.2	395.2	446.1	465.4
155°	356.8	368.5	395.1	435.3	447.7
157.5°	366.2	375.6	395.1	426.3	435.0
160°	373.0	380.4	395.1	421.5	428.2
162.5°	378.4	384.5	395.7	417.4	422.7
165°	385.7	390.7	396.8	412.9	415.4
167.5°	390.8	394.6	397.6	409.2	409.8
170°	394.2	396.7	397.6	407.8	407.8
172.5°	396.9	398.1	397.6	405.7	405.1
175°	399.3	400.1	397.6	402.7	401.8
177.5°	400.0	400.0	397.3	401.3	400.0
180°	399.3	399.3	399.3	399.3	399.3

(END OF REPORT)