

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: P564058

Luminaire Tested: **SQ4-PR1-075U-050D-935-1D-UNV-STD-W-4**

Issue Date: 7/30/2021

Test Information

Test Method: LM-79-2019
Report Number: P564058
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1910-536-22, G2-2106-289-4)
Test Lab: INNOVATION CENTER
Issue Date: 7/30/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: CORELITE
Catalog Number: SQ4-PR1-075U-050D-935-1D-UNV-STD-W-4
Description: CORELITE SQ4 SUSPENDED LED LUMINAIRE WITH PERCEIVE RIPPLE CONTINUOUS LENS.
DOWNLIGHT 500 LUMENS PER FOOT
UPLIGHT 750 LUMENS PER FOOT
Light Source: 3500K CCT, 90 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

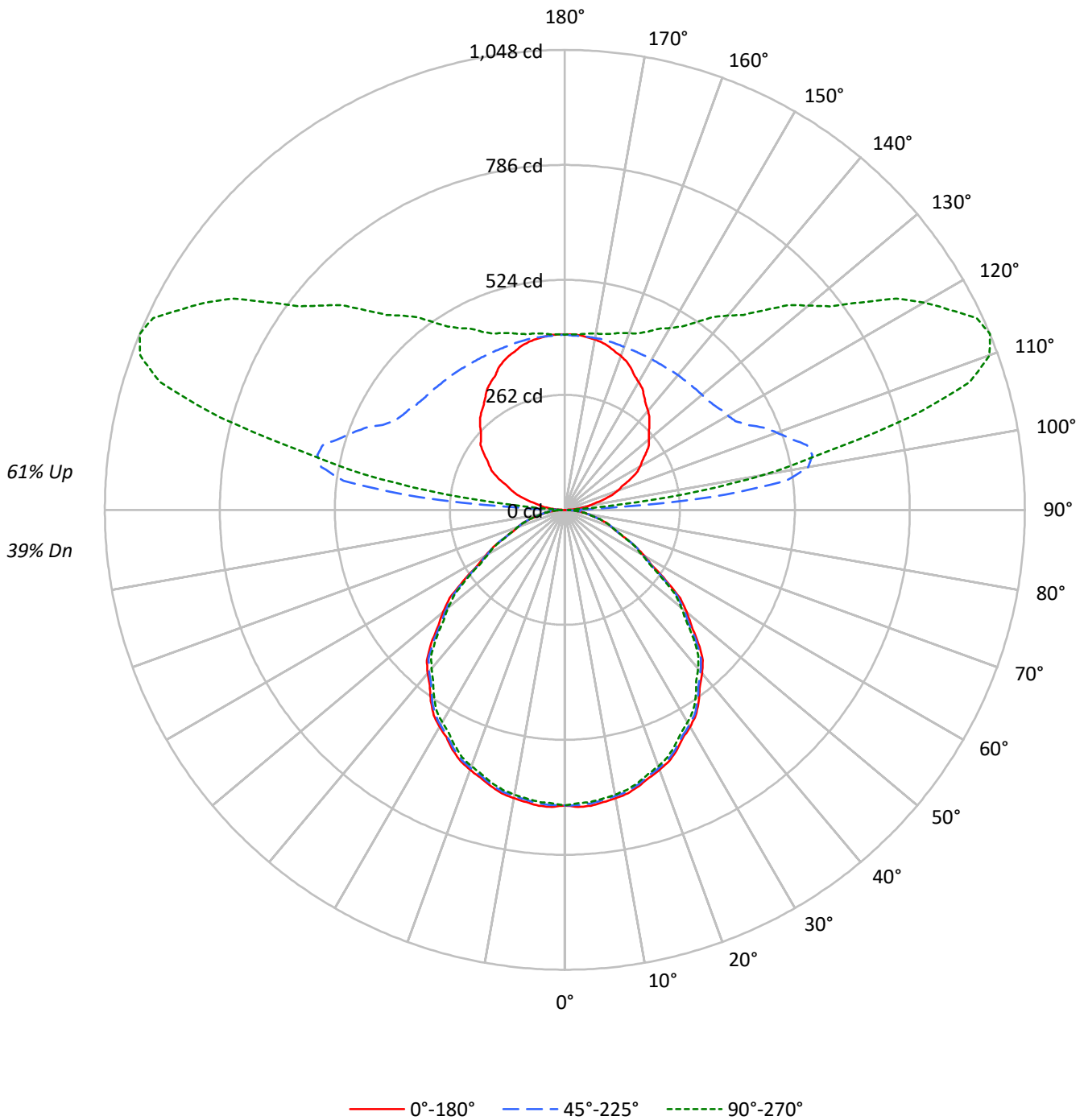
Lumens per Lamp: N/A
Luminaire Lumens: 4286.0 lumens
Efficiency: N/A
Efficacy: 123.5 lumens/watt
Spacing Criteria (0/90/45): 1.26 / 1.24 / 1.35
Luminous Opening: Rectangular (W 0.29' x L: 4' x H: 0')
CIE Type: Semi-Indirect

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	39	34
2	87	80	74	69	79	73	68	64	60	56	53	48	45	43	37	35	34	28
3	80	71	63	58	72	64	58	53	53	49	45	42	39	37	33	31	29	24
4	73	63	55	49	66	57	51	45	47	42	38	38	34	32	29	27	25	21
5	67	56	48	42	61	51	44	39	42	37	33	34	30	27	26	24	22	18
6	62	50	42	36	56	46	39	34	38	33	29	31	27	24	24	21	19	16
7	57	45	37	32	52	41	35	30	34	29	25	28	24	21	22	19	17	14
8	53	41	33	28	48	38	31	26	31	26	23	26	22	19	20	17	15	13
9	49	37	30	25	45	34	28	23	29	24	20	23	20	17	19	16	14	12
10	46	34	27	22	42	31	25	21	26	22	18	22	18	15	17	15	13	11

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	6214	6214	6214
5°	6270	6222	6189
10°	6250	6207	6174
15°	6223	6184	6150
20°	6191	6151	6106
25°	6148	6107	6036
30°	6081	6038	5952
35°	5992	5939	5855
40°	5855	5792	5687
45°	5617	5518	5404
50°	5196	5071	4971
55°	4534	4433	4340
60°	3821	3790	3714
65°	3305	3318	3292
70°	3035	3051	3051
75°	2916	2916	2937
80°	2742	2773	2742
85°	2212	2456	2456



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	63.7	1.5
10°-20°	182.2	4.3
20°-30°	274.9	6.4
30°-40°	327.5	7.6
40°-50°	322.9	7.5
50°-60°	246.8	5.8
60°-70°	152.7	3.6
70°-80°	86.7	2.0
80°-90°	27.4	0.6
90°-100°	188.3	4.4
100°-110°	518.1	12.1
110°-120°	534.8	12.5
120°-130°	428.5	10.0
130°-140°	336.5	7.9
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°	520.8	12.2
0°-40°	848.3	19.8
0°-60°	1417.9	33.1
0°-90°	1684.7	39.3
90°-120°	1241.3	29.0
90°-150°	2264.2	52.8
90°-180°	2601.0	60.7
0°-180°	4286.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	674	674	674	674	674	
5°	677	670	672	669	668	64
15°	652	645	647	645	644	184
25°	604	596	600	594	593	278
35°	532	526	527	520	520	332
45°	430	425	423	415	414	330
55°	282	277	276	271	270	253
65°	151	150	152	151	151	153
75°	82	82	82	82	82	86
85°	21	22	23	23	23	24
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°	673.5	673.5	673.5	673.5	673.5
2.5°	677.7	671.8	673.5	672.1	668.9
5°	677.0	669.6	671.8	669.4	668.3
7.5°	671.8	664.5	666.7	664.3	663.7
10°	667.1	660.3	662.5	660.2	659.0
12.5°	662.0	654.8	657.4	654.6	653.5
15°	651.5	644.7	647.4	645.1	643.9
17.5°	639.9	632.6	635.4	632.7	631.2
20°	630.6	623.8	626.5	622.5	621.9
22.5°	620.4	613.6	616.3	610.9	610.8
25°	603.9	596.5	599.9	593.5	592.9
27.5°	584.3	577.5	580.2	573.7	573.1
30°	570.8	564.0	566.8	559.8	558.7
32.5°	555.5	549.2	551.5	544.5	543.8
35°	532.0	525.7	527.3	520.4	519.8
37.5°	505.2	499.5	500.4	492.7	492.2
40°	486.1	480.5	480.9	472.8	472.2
42.5°	465.3	459.6	459.1	451.0	450.4
45°	430.5	424.8	422.9	415.3	414.2
47.5°	390.8	385.1	381.6	375.4	374.6
50°	362.0	356.3	353.3	348.0	346.3
52.5°	330.9	325.2	322.7	317.9	316.2
55°	281.9	277.4	275.6	270.9	269.8
57.5°	235.4	232.4	231.8	227.3	226.8
60°	207.1	205.4	205.4	201.3	201.3
62.5°	183.0	181.7	182.6	179.9	179.5
65°	151.4	150.3	152.0	150.8	150.8
67.5°	126.5	126.5	127.5	127.0	127.0
70°	112.5	112.5	113.1	113.1	113.1
72.5°	100.0	99.6	101.1	101.0	100.6
75°	81.8	81.8	81.8	82.4	82.4
77.5°	63.7	63.8	64.3	64.2	63.7
80°	51.6	52.2	52.2	51.6	51.6
82.5°	39.6	40.1	40.1	40.0	39.6
85°	20.9	22.0	23.2	23.2	23.2
87.5°	6.2	8.5	10.5	10.8	10.3
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)