

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: P564054

Luminaire Tested: **SQ4-PR1-075U-050D-930-1D-UNV-STD-W-4**

Issue Date: 7/30/2021

Test Information

Test Method: LM-79-2019
Report Number: P564054
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-930-1D-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: 3000K CCT, 90 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

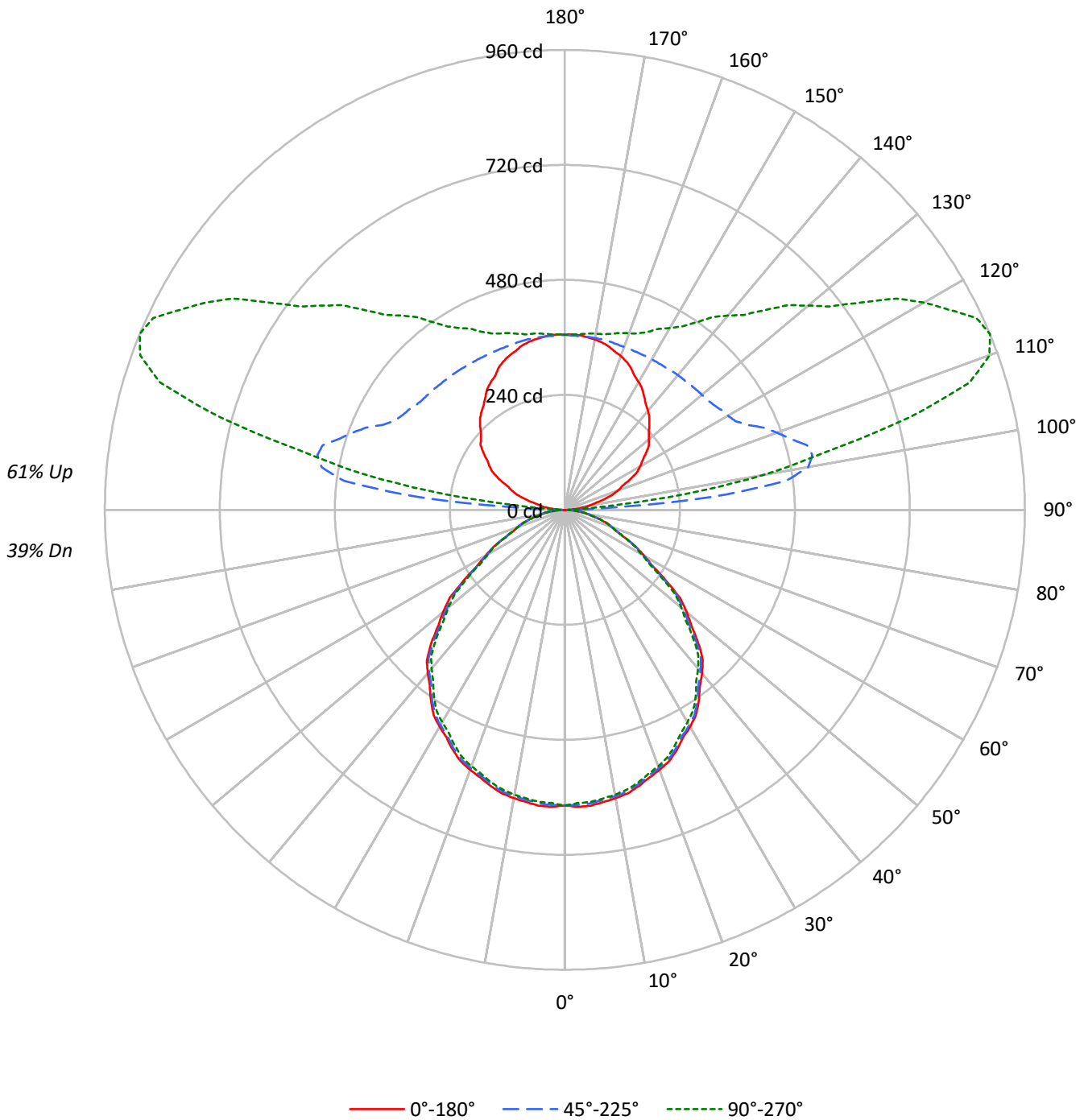
Lumens per Lamp: N/A
Luminaire Lumens: 3925.3 lumens
Efficiency: N/A
Efficacy: 113.1 lumens/watt
Spacing Criteria (0/90/45): 1.26 / 1.24 / 1.35
Luminous Opening: Rectangular (W 0.29' x L: 4' x H: 0')
CIE Type: Semi-Indirect

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°	5691	5691	5691
5°	5742	5698	5669
10°	5724	5684	5655
15°	5699	5663	5633
20°	5670	5634	5593
25°	5631	5593	5528
30°	5570	5530	5450
35°	5487	5439	5361
40°	5362	5304	5209
45°	5143	5053	4949
50°	4758	4645	4553
55°	4153	4060	3975
60°	3500	3471	3403
65°	3028	3039	3015
70°	2781	2795	2795
75°	2670	2670	2688
80°	2513	2540	2513
85°	2022	2255	2255



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	58.3	1.5
10°-20°	166.9	4.3
20°-30°	251.7	6.4
30°-40°	299.9	7.6
40°-50°	295.7	7.5
50°-60°	226.0	5.8
60°-70°	139.9	3.6
70°-80°	79.4	2.0
80°-90°	25.1	0.6
90°-100°	172.5	4.4
100°-110°	474.5	12.1
110°-120°	489.8	12.5
120°-130°	392.4	10.0
130°-140°	308.2	7.9
140°-150°	236.2	6.0
150°-160°	169.8	4.3
160°-170°	103.8	2.6
170°-180°	35.0	0.9
0°-30°	477.0	12.2
0°-40°	776.9	19.8
0°-60°	1298.6	33.1
0°-90°	1543.0	39.3
90°-120°	1136.8	29.0
90°-150°	2073.6	52.8
90°-180°	2382.0	60.7
0°-180°	3925.3	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	617	617	617	617	617	
5°	620	613	615	613	612	59
15°	597	590	593	591	590	168
25°	553	546	549	544	543	255
35°	487	482	483	477	476	304
45°	394	389	387	380	379	302
55°	258	254	252	248	247	231
65°	139	138	139	138	138	140
75°	75	75	75	75	75	79
85°	19	20	21	21	21	22
90°	1	3	5	7	7	2
95°	26	94	305	130	83	27
105°	85	130	523	796	743	89
115°	150	183	419	835	948	148
125°	207	236	380	644	754	185
135°	250	277	370	520	589	193
145°	289	308	364	444	478	181
155°	327	337	362	399	410	150
165°	353	358	363	378	380	100
175°	366	366	364	369	368	35
180°	366	366	366	366	366	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	616.8	616.8	616.8	616.8	616.8
2.5°	620.7	615.3	616.8	615.5	612.6
5°	620.0	613.3	615.2	613.1	612.1
7.5°	615.2	608.6	610.6	608.4	607.8
10°	611.0	604.8	606.7	604.6	603.6
12.5°	606.3	599.7	602.1	599.5	598.5
15°	596.6	590.4	592.9	590.8	589.7
17.5°	586.0	579.4	581.9	579.4	578.1
20°	577.5	571.3	573.8	570.1	569.6
22.5°	568.2	561.9	564.5	559.5	559.3
25°	553.1	546.3	549.4	543.5	543.0
27.5°	535.1	528.9	531.4	525.4	524.8
30°	522.8	516.6	519.1	512.7	511.6
32.5°	508.8	503.0	505.1	498.7	498.0
35°	487.2	481.5	482.9	476.6	476.0
37.5°	462.7	457.5	458.3	451.3	450.8
40°	445.2	440.0	440.4	433.0	432.5
42.5°	426.1	420.9	420.5	413.0	412.5
45°	394.2	389.0	387.3	380.4	379.3
47.5°	357.9	352.7	349.5	343.8	343.1
50°	331.5	326.3	323.6	318.7	317.2
52.5°	303.1	297.9	295.5	291.1	289.6
55°	258.2	254.1	252.4	248.1	247.1
57.5°	215.6	212.8	212.3	208.2	207.7
60°	189.7	188.1	188.1	184.4	184.4
62.5°	167.6	166.4	167.3	164.8	164.4
65°	138.7	137.6	139.2	138.1	138.1
67.5°	115.8	115.8	116.8	116.4	116.4
70°	103.1	103.1	103.6	103.6	103.6
72.5°	91.6	91.2	92.6	92.5	92.1
75°	74.9	74.9	74.9	75.4	75.4
77.5°	58.3	58.4	58.9	58.8	58.3
80°	47.3	47.8	47.8	47.3	47.3
82.5°	36.2	36.8	36.8	36.7	36.2
85°	19.1	20.2	21.3	21.3	21.3
87.5°	5.7	7.8	9.6	9.9	9.5
90°	0.8	3.1	5.4	7.0	7.0
92.5°	10.7	45.9	79.5	30.5	25.1
95°	25.7	94.1	305.0	130.4	83.3
97.5°	41.9	104.4	465.4	358.6	253.0
100°	53.7	110.7	515.9	520.7	424.8
102.5°	64.9	118.3	528.9	646.0	558.0
105°	84.8	130.5	522.9	796.3	743.0
107.5°	103.8	145.5	493.1	869.9	885.7
110°	117.5	155.5	470.7	888.2	943.0



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	129.9	166.8	448.3	876.4	959.8
115°	150.2	182.9	419.4	835.1	947.7
117.5°	169.5	199.6	401.0	777.1	904.4
120°	181.3	210.2	392.9	733.6	865.2
122.5°	191.9	220.8	387.3	695.5	820.4
125°	207.0	235.9	380.5	643.6	753.9
127.5°	221.3	248.8	376.0	600.4	697.1
130°	228.8	256.9	373.5	574.7	662.9
132.5°	237.5	265.6	371.6	552.1	631.8
135°	249.8	277.1	369.6	520.5	589.0
137.5°	261.3	286.7	367.9	495.0	551.5
140°	270.0	293.6	367.2	478.1	529.1
142.5°	277.5	299.2	366.0	463.0	506.7
145°	288.7	308.4	364.1	443.5	477.7
147.5°	300.6	317.7	363.2	426.2	453.6
150°	308.1	323.3	362.6	416.7	438.0
152.5°	315.0	329.0	362.0	408.6	426.2
155°	326.8	337.4	361.8	398.6	410.0
157.5°	335.3	344.0	361.8	390.5	398.4
160°	341.6	348.4	361.8	386.1	392.1
162.5°	346.5	352.2	362.4	382.3	387.2
165°	353.2	357.8	363.4	378.2	380.5
167.5°	357.9	361.4	364.1	374.7	375.3
170°	361.0	363.3	364.1	373.5	373.5
172.5°	363.5	364.6	364.1	371.6	371.0
175°	365.7	366.4	364.1	368.8	368.0
177.5°	366.3	366.3	363.8	367.5	366.3
180°	365.7	365.7	365.7	365.7	365.7

(END OF REPORT)