

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: P561886

Luminaire Tested: **SQ4-PR1-075U-050D-92765-1D-UNV-STD-W-4 (5000K)**

Issue Date: 7/30/2021

Test Information

Test Method: LM-79-2019
Report Number: P561886
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2101-105-51, 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-92765-1D-UNV-STD-W-4 (5000K)
Description: CORELITE SQ4 SUSPENDED LED LUMINAIRE WITH PERCEIVE RIPPLE CONTINUOUS LENS
DOWNLIGHT 500 LUMENS PER FOOT
UPLIGHT 750 LUMENS PER FOOT
Light Source: 2700K/65000K CCT, 90 CRI LEDS, TUNED TO 5000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

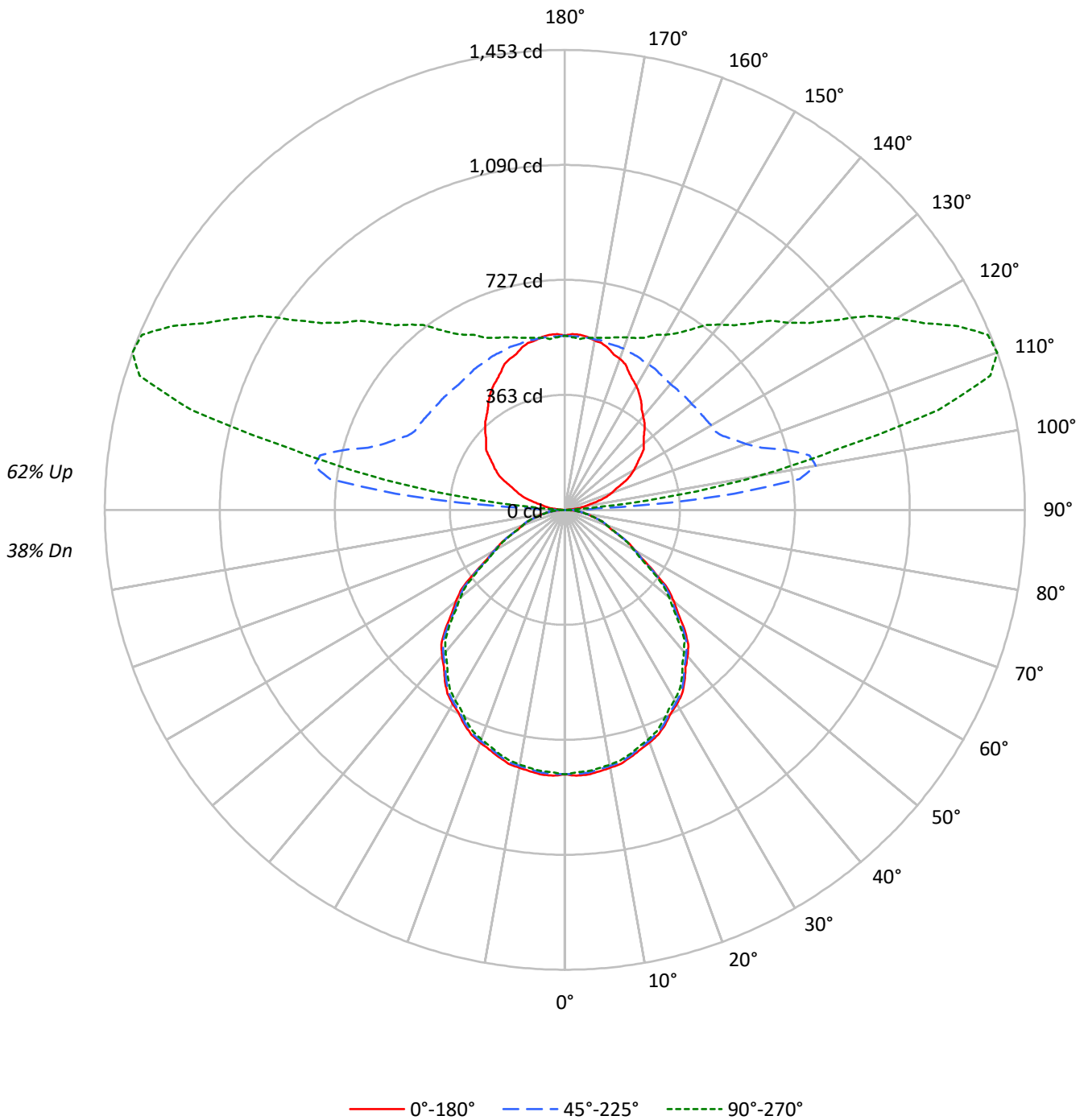
Lumens per Lamp: N/A
Luminaire Lumens: 5507.0 lumens
Efficiency: N/A
Efficacy: 124.3 lumens/watt
Spacing Criteria (0/90/45): 1.26 / 1.24 / 1.35
Luminous Opening: Rectangular (W 0.29' x L: 4' x H: 0')
CIE Type: Semi-Indirect

Input Watts (W): 44.3
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	104	104	104	104	95	95	95	95	77	77	77	60	60	60	45	45	45	38				
1	95	91	87	84	86	83	80	77	67	65	63	53	52	50	40	39	38	32				
2	87	80	74	69	79	73	68	63	59	56	53	47	45	42	36	34	33	27				
3	79	70	63	58	72	64	58	53	52	48	45	42	39	36	32	30	28	24				
4	73	62	55	49	66	57	50	45	47	42	38	37	34	31	28	26	24	20				
5	67	55	48	42	60	51	44	39	42	37	33	33	30	27	26	23	21	18				
6	61	50	42	36	56	46	39	34	38	32	29	30	26	24	23	21	19	16				
7	57	45	37	32	51	41	34	30	34	29	25	27	24	21	21	19	17	14				
8	53	41	33	28	48	37	31	26	31	26	22	25	21	19	20	17	15	12				
9	49	37	30	25	44	34	28	23	28	23	20	23	19	17	18	15	13	11				
10	46	34	27	22	41	31	25	21	26	21	18	21	18	15	17	14	12	10				

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	7709	7709	7709
5°	7779	7718	7679
10°	7753	7700	7660
15°	7720	7672	7631
20°	7681	7632	7575
25°	7627	7576	7487
30°	7545	7490	7384
35°	7434	7368	7262
40°	7264	7185	7055
45°	6968	6846	6705
50°	6446	6291	6168
55°	5627	5500	5384
60°	4740	4702	4608
65°	4100	4117	4085
70°	3766	3785	3785
75°	3618	3618	3643
80°	3406	3443	3406
85°	2742	3049	3049



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	79.0	1.4
10°-20°	226.1	4.1
20°-30°	341.0	6.2
30°-40°	406.3	7.4
40°-50°	400.6	7.3
50°-60°	306.1	5.6
60°-70°	189.4	3.4
70°-80°	107.6	2.0
80°-90°	32.7	0.6
90°-100°	250.8	4.6
100°-110°	713.5	13.0
110°-120°	683.6	12.4
120°-130°	541.0	9.8
130°-140°	434.3	7.9
140°-150°	340.0	6.2
150°-160°	248.8	4.5
160°-170°	154.1	2.8
170°-180°	52.3	0.9
0°-30°	646.1	11.7
0°-40°	1052.3	19.1
0°-60°	1759.0	31.9
0°-90°	2088.8	37.9
90°-120°	1647.8	29.9
90°-150°	2963.1	53.8
90°-180°	3418.0	62.1
0°-180°	5507.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	836	836	836	836	836	
5°	840	831	833	830	829	80
15°	808	800	803	800	799	228
25°	749	740	744	736	736	345
35°	660	652	654	646	645	412
45°	534	527	525	515	514	409
55°	350	344	342	336	335	313
65°	188	186	189	187	187	190
75°	102	102	102	102	102	107
85°	26	27	29	29	29	30
90°	0	0	0	0	0	2
95°	27	108	485	168	104	31
105°	111	168	727	1284	1221	117
115°	206	249	551	1168	1372	203
125°	291	322	526	873	1044	260
135°	356	385	520	738	834	274
145°	420	441	524	638	696	262
155°	479	490	537	577	600	221
165°	529	531	543	555	563	149
175°	554	551	549	546	542	53
180°	550	550	550	550	550	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	835.6	835.6	835.6	835.6	835.6
2.5°	840.7	833.4	835.6	833.7	829.8
5°	839.9	830.7	833.4	830.5	829.1
7.5°	833.4	824.4	827.1	824.2	823.3
10°	827.6	819.2	821.9	819.0	817.6
12.5°	821.3	812.3	815.6	812.1	810.7
15°	808.2	799.8	803.2	800.3	798.9
17.5°	793.8	784.8	788.2	784.8	783.0
20°	782.3	773.9	777.3	772.2	771.5
22.5°	769.6	761.2	764.6	757.8	757.7
25°	749.2	740.0	744.2	736.2	735.5
27.5°	724.9	716.4	719.8	711.8	710.9
30°	708.2	699.7	703.1	694.5	693.1
32.5°	689.2	681.3	684.1	675.5	674.6
35°	660.0	652.2	654.2	645.5	644.8
37.5°	626.7	619.7	620.8	611.3	610.6
40°	603.1	596.1	596.6	586.5	585.8
42.5°	577.2	570.2	569.6	559.5	558.8
45°	534.0	527.0	524.7	515.3	513.9
47.5°	484.8	477.7	473.4	465.8	464.8
50°	449.1	442.0	438.3	431.8	429.7
52.5°	410.5	403.5	400.3	394.3	392.2
55°	349.8	344.1	341.9	336.1	334.7
57.5°	292.0	288.2	287.6	282.0	281.4
60°	256.9	254.8	254.8	249.7	249.7
62.5°	227.0	225.4	226.6	223.2	222.7
65°	187.8	186.4	188.6	187.1	187.1
67.5°	156.9	156.9	158.2	157.6	157.6
70°	139.6	139.6	140.3	140.3	140.3
72.5°	124.1	123.5	125.4	125.4	124.8
75°	101.5	101.5	101.5	102.2	102.2
77.5°	79.0	79.2	79.7	79.6	79.0
80°	64.1	64.8	64.8	64.1	64.1
82.5°	49.1	49.8	49.8	49.6	49.1
85°	25.9	27.3	28.8	28.8	28.8
87.5°	7.5	9.7	11.5	11.5	10.9
90°	0.0	0.0	0.0	0.0	0.0
92.5°	8.4	44.4	102.9	30.0	22.6
95°	27.2	108.0	485.4	168.0	103.6
97.5°	50.0	126.5	747.6	535.0	366.6
100°	65.9	137.5	804.5	814.9	627.7
102.5°	83.5	149.4	792.0	1043.1	879.6
105°	110.9	168.2	727.1	1284.3	1220.9
107.5°	138.7	190.1	651.3	1352.3	1408.8
110°	158.0	206.0	607.8	1326.3	1453.1

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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	176.4	222.0	578.5	1264.7	1445.6
115°	206.1	249.1	551.3	1168.0	1371.5
117.5°	232.2	272.6	535.2	1062.2	1277.8
120°	253.2	286.9	533.5	1001.7	1208.3
122.5°	269.9	303.7	529.4	948.6	1140.5
125°	290.8	322.5	526.2	873.2	1044.1
127.5°	313.6	343.3	524.5	828.2	969.0
130°	325.4	355.0	522.0	796.8	919.6
132.5°	337.9	366.8	522.0	772.3	885.3
135°	355.7	385.4	519.9	737.6	833.8
137.5°	372.4	401.3	519.7	708.3	791.3
140°	385.0	414.7	518.9	683.9	763.7
142.5°	399.2	424.0	521.4	664.5	736.1
145°	419.5	441.0	524.1	638.4	695.7
147.5°	436.9	457.7	528.7	612.1	661.6
150°	451.9	466.3	530.4	603.4	638.2
152.5°	463.7	478.8	532.1	591.6	623.9
155°	479.1	490.4	536.7	577.0	600.5
157.5°	498.4	505.1	537.7	570.3	587.1
160°	508.4	513.6	541.9	565.3	579.6
162.5°	514.3	520.2	542.8	561.0	572.0
165°	529.4	531.4	543.0	554.7	562.8
167.5°	539.6	537.8	547.8	553.1	556.4
170°	543.0	541.9	546.1	547.2	551.3
172.5°	550.5	547.0	548.6	545.5	548.8
175°	554.5	551.4	549.2	546.0	541.9
177.5°	556.1	551.2	548.6	545.3	546.1
180°	550.3	550.3	550.3	550.3	550.3

(END OF REPORT)