

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: P561835

Luminaire Tested: **SQ4-PR1-050U-050D-92765-1D-UNV-STD-W-4 (5700K)**

Issue Date: 7/30/2021

Test Information

Test Method: LM-79-2019
Report Number: P561835
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-PR1-050U-050D-92765-1D-UNV-STD-W-4 (5700K)
Description: CORELITE SQ4 SUSPENDED LED LUMINAIRE WITH PERCEIVE RIPPLE CONTINUOUS LENS
DOWNLIGHT 500 LUMENS PER FOOT
UPLIGHT 500 LUMENS PER FOOT
Light Source: 2700K/65000K CCT, 90 CRI LEDS, TUNED TO 5700K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

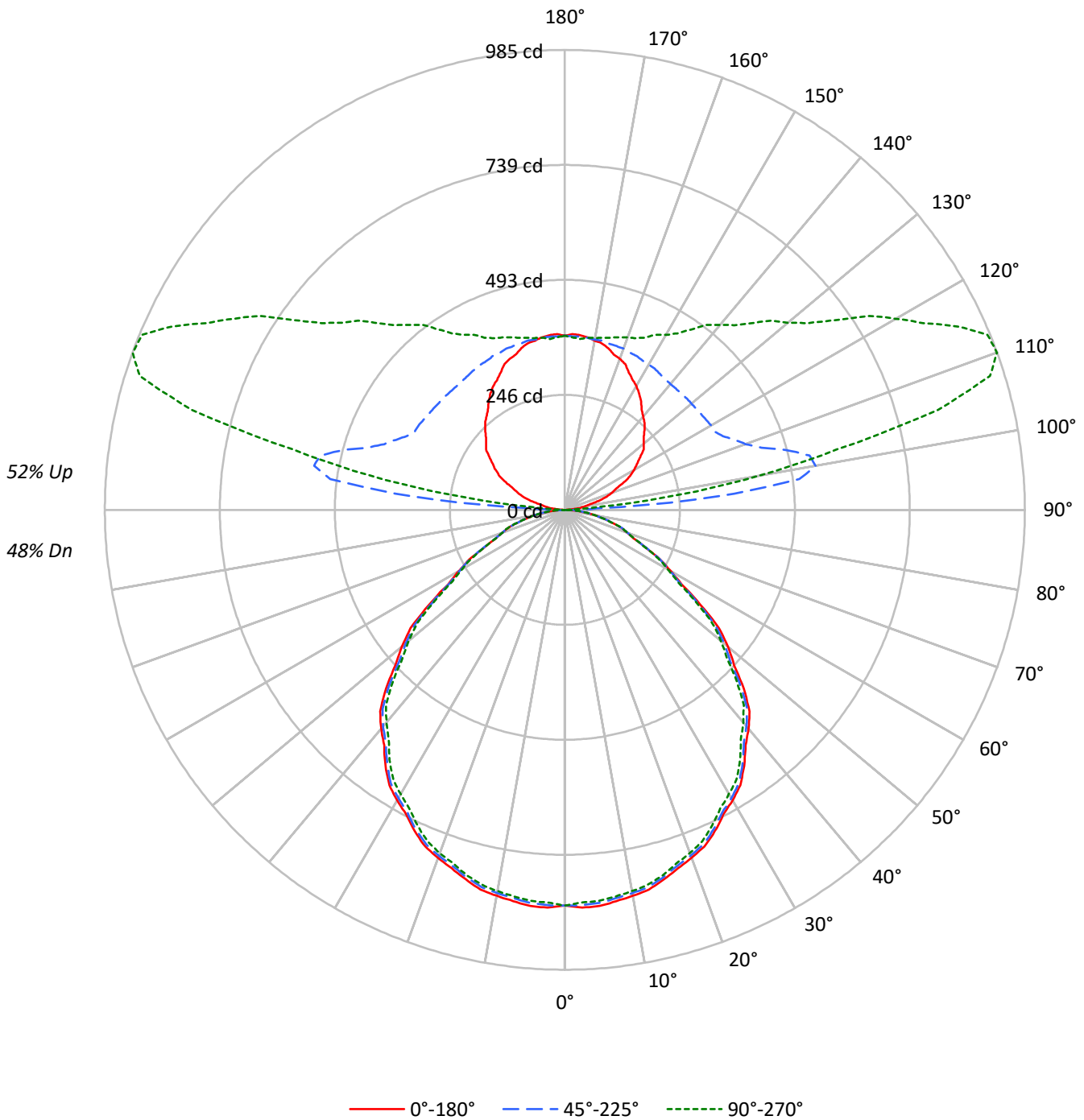
Lumens per Lamp: N/A
Luminaire Lumens: 4434.6 lumens
Efficiency: N/A
Efficacy: 121.8 lumens/watt
Spacing Criteria (0/90/45): 1.26 / 1.24 / 1.35
Luminous Opening: Rectangular (W 0.29' x L: 4' x H: 0')
CIE Type: General Diffuse

Input Watts (W): 36.4
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				
RC	80					70					50					30				
RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10	0		
RCR																				
0	107	107	107	107	98	98	98	98	82	82	82	67	67	67	54	54	54	48		
1	98	93	90	86	90	86	83	80	72	70	68	60	58	57	48	47	46	41		
2	89	82	76	71	82	76	70	66	64	60	57	53	50	48	43	41	39	35		
3	81	72	65	59	75	67	60	55	56	52	48	47	44	41	38	36	34	30		
4	75	64	56	50	68	59	52	47	50	45	41	42	38	35	34	32	29	26		
5	68	57	49	43	63	53	46	41	45	40	36	38	34	31	31	28	26	22		
6	63	51	43	38	58	48	41	35	41	35	31	34	30	27	28	25	23	20		
7	58	46	38	33	54	43	36	31	37	31	27	31	27	24	26	23	20	18		
8	54	42	34	29	50	39	32	28	34	28	24	28	24	21	24	20	18	16		
9	50	38	31	26	46	36	29	25	31	26	22	26	22	19	22	19	16	14		
10	47	35	28	23	43	33	26	22	28	23	20	24	20	17	20	17	15	13		

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	7819	7819	7819
5°	7889	7829	7788
10°	7864	7810	7768
15°	7830	7781	7739
20°	7790	7740	7683
25°	7736	7684	7594
30°	7652	7598	7488
35°	7540	7473	7366
40°	7367	7288	7157
45°	7067	6943	6801
50°	6538	6380	6255
55°	5707	5577	5459
60°	4809	4768	4674
65°	4159	4174	4144
70°	3820	3839	3839
75°	3668	3668	3697
80°	3454	3491	3454
85°	2784	3091	3091



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	80.1	1.8
10°-20°	229.3	5.2
20°-30°	345.8	7.8
30°-40°	412.1	9.3
40°-50°	406.3	9.2
50°-60°	310.5	7.0
60°-70°	192.1	4.3
70°-80°	109.1	2.5
80°-90°	33.2	0.7
90°-100°	169.9	3.8
100°-110°	483.4	10.9
110°-120°	463.2	10.4
120°-130°	366.6	8.3
130°-140°	294.2	6.6
140°-150°	230.4	5.2
150°-160°	168.5	3.8
160°-170°	104.4	2.4
170°-180°	35.4	0.8
0°-30°	655.3	14.8
0°-40°	1067.3	24.1
0°-60°	1784.1	40.2
0°-90°	2118.6	47.8
90°-120°	1116.5	25.2
90°-150°	2007.7	45.3
90°-180°	2316.0	52.2
0°-180°	4434.6	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	848	848	848	848	848	
5°	852	843	845	842	841	81
15°	820	811	815	812	810	231
25°	760	751	755	747	746	350
35°	669	662	664	655	654	418
45°	542	534	532	523	521	415
55°	355	349	347	341	339	318
65°	190	189	191	190	190	193
75°	103	103	103	104	104	109
85°	26	28	29	29	29	31
90°	0	0	0	0	0	2
95°	18	73	329	114	70	21
105°	75	114	493	870	827	79
115°	140	169	374	791	929	137
125°	197	218	356	592	707	176
135°	241	261	352	500	565	186
145°	284	299	355	433	471	178
155°	325	332	364	391	407	150
165°	359	360	368	376	381	101
175°	376	374	372	370	367	36
180°	373	373	373	373	373	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	847.5	847.5	847.5	847.5	847.5
2.5°	852.7	845.3	847.5	845.6	841.6
5°	851.8	842.6	845.3	842.3	840.9
7.5°	845.3	836.1	838.8	835.9	835.1
10°	839.4	830.9	833.6	830.6	829.2
12.5°	833.0	823.9	827.2	823.6	822.2
15°	819.7	811.2	814.6	811.7	810.2
17.5°	805.1	796.0	799.4	796.0	794.2
20°	793.4	784.9	788.3	783.2	782.5
22.5°	780.6	772.0	775.5	768.6	768.5
25°	759.9	750.6	754.8	746.7	746.0
27.5°	735.2	726.6	730.1	721.9	721.0
30°	718.3	709.7	713.2	704.4	702.9
32.5°	699.0	691.0	693.9	685.1	684.2
35°	669.4	661.5	663.5	654.7	654.0
37.5°	635.6	628.5	629.6	620.0	619.3
40°	611.7	604.6	605.1	594.9	594.2
42.5°	585.4	578.3	577.7	567.4	566.7
45°	541.6	534.5	532.1	522.6	521.2
47.5°	491.7	484.5	480.2	472.4	471.4
50°	455.5	448.3	444.5	437.9	435.8
52.5°	416.4	409.2	406.0	400.0	397.8
55°	354.8	349.0	346.7	340.8	339.4
57.5°	296.2	292.4	291.7	286.0	285.4
60°	260.6	258.4	258.4	253.3	253.3
62.5°	230.2	228.7	229.8	226.4	225.8
65°	190.5	189.1	191.2	189.8	189.8
67.5°	159.1	159.1	160.4	159.9	159.9
70°	141.6	141.6	142.3	142.3	142.3
72.5°	125.8	125.3	127.2	127.1	126.6
75°	102.9	102.9	102.9	103.7	103.7
77.5°	80.1	80.3	80.9	80.7	80.1
80°	65.0	65.7	65.7	65.0	65.0
82.5°	49.8	50.5	50.5	50.4	49.8
85°	26.3	27.7	29.2	29.2	29.2
87.5°	7.6	9.9	11.7	11.7	11.1
90°	0.0	0.0	0.0	0.0	0.0
92.5°	5.7	30.1	69.8	20.3	15.3
95°	18.4	73.2	328.9	113.8	70.2
97.5°	33.9	85.7	506.5	362.5	248.4
100°	44.7	93.2	545.1	552.1	425.3
102.5°	56.6	101.2	536.6	706.7	596.0
105°	75.1	114.0	492.6	870.2	827.2
107.5°	94.0	128.8	441.3	916.3	954.5
110°	107.0	139.6	411.8	898.6	984.6



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	119.5	150.4	392.0	856.9	979.5
115°	139.6	168.8	373.6	791.4	929.3
117.5°	157.4	184.7	362.6	719.7	865.8
120°	171.5	194.4	361.5	678.7	818.7
122.5°	182.9	205.8	358.7	642.8	772.8
125°	197.1	218.5	356.5	591.7	707.4
127.5°	212.5	232.6	355.4	561.2	656.5
130°	220.4	240.5	353.7	539.9	623.1
132.5°	229.0	248.5	353.7	523.3	599.8
135°	241.0	261.1	352.3	499.8	564.9
137.5°	252.3	271.9	352.2	479.9	536.2
140°	260.9	281.0	351.6	463.4	517.5
142.5°	270.5	287.3	353.3	450.2	498.7
145°	284.2	298.8	355.1	432.6	471.4
147.5°	296.0	310.2	358.2	414.7	448.3
150°	306.2	315.9	359.4	408.8	432.4
152.5°	314.2	324.4	360.5	400.9	422.8
155°	324.6	332.3	363.6	390.9	406.9
157.5°	337.7	342.3	364.3	386.4	397.8
160°	344.5	348.0	367.2	383.0	392.7
162.5°	348.5	352.5	367.7	380.1	387.6
165°	358.7	360.1	367.9	375.8	381.4
167.5°	365.6	364.4	371.1	374.7	377.0
170°	367.9	367.2	370.0	370.8	373.6
172.5°	373.0	370.6	371.7	369.6	371.9
175°	375.7	373.6	372.1	370.0	367.2
177.5°	376.8	373.5	371.7	369.5	370.0
180°	372.9	372.9	372.9	372.9	372.9

(END OF REPORT)