

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: P561887

Luminaire Tested: **SQ4-PR1-075U-050D-92765-1D-UNV-STD-W-4 (5700K)**

Issue Date: 7/30/2021

Test Information

Test Method: LM-79-2019
Report Number: P561887
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 (5700K)
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 5700K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 5585.5 lumens
Efficiency: N/A
Efficacy: 126.4 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

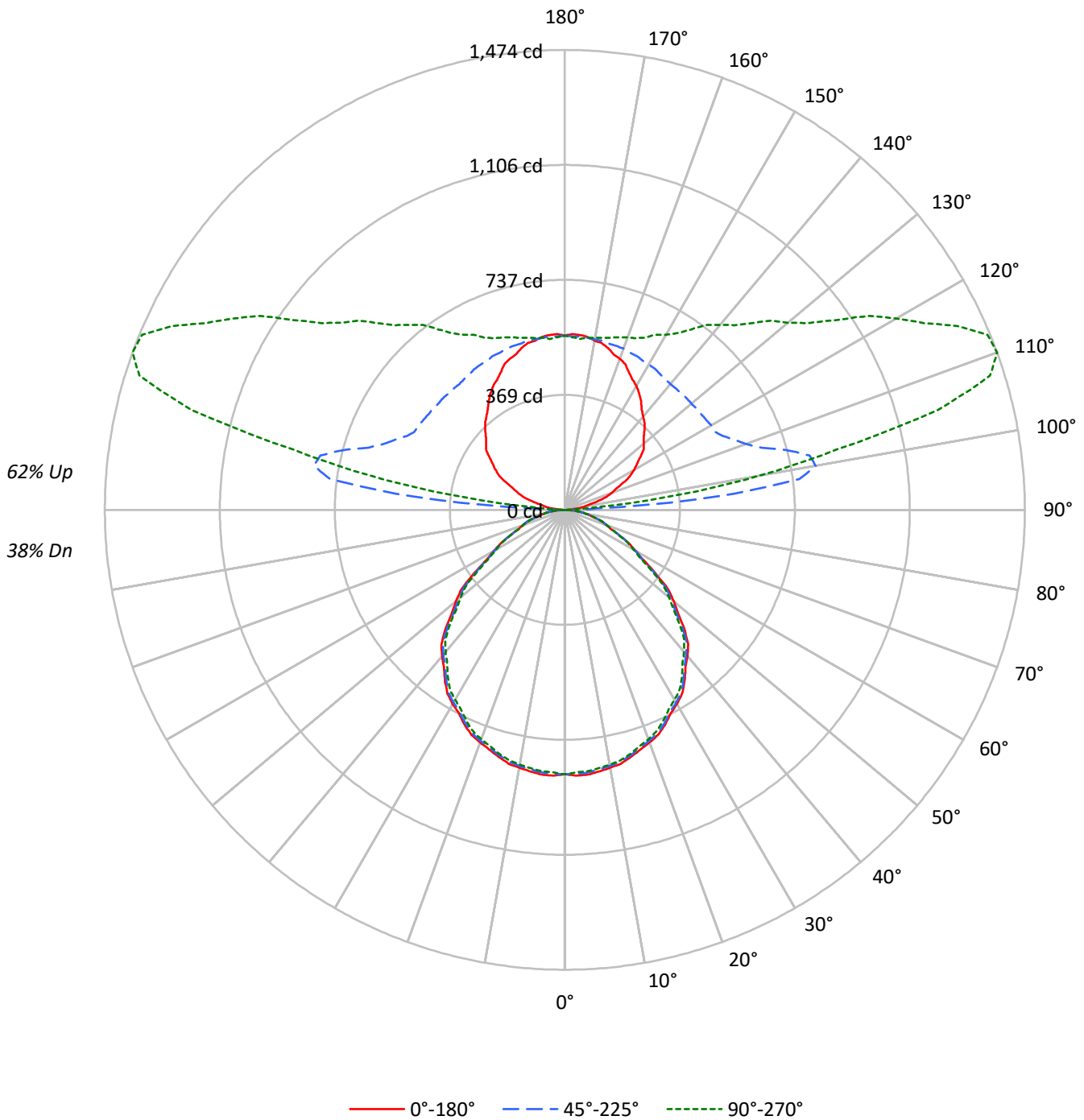
Input Watts (W): 44.2
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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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°	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	1.4
10°-20°	229.3	4.1
20°-30°	345.8	6.2
30°-40°	412.1	7.4
40°-50°	406.3	7.3
50°-60°	310.5	5.6
60°-70°	192.1	3.4
70°-80°	109.1	2.0
80°-90°	33.2	0.6
90°-100°	254.3	4.6
100°-110°	723.6	13.0
110°-120°	693.3	12.4
120°-130°	548.7	9.8
130°-140°	440.5	7.9
140°-150°	344.8	6.2
150°-160°	252.3	4.5
160°-170°	156.3	2.8
170°-180°	53.0	0.9
0°-30°	655.3	11.7
0°-40°	1067.3	19.1
0°-60°	1784.1	31.9
0°-90°	2118.6	37.9
90°-120°	1671.3	29.9
90°-150°	3005.3	53.8
90°-180°	3467.0	62.1
0°-180°	5585.5	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°	28	110	492	170	105	32
105°	112	171	737	1303	1238	119
115°	209	253	559	1185	1391	206
125°	295	327	534	886	1059	264
135°	361	391	527	748	846	278
145°	426	447	532	648	706	266
155°	486	497	544	585	609	225
165°	537	539	551	563	571	151
175°	562	559	557	554	550	53
180°	558	558	558	558	558	



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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°	8.5	45.0	104.4	30.4	22.9
95°	27.6	109.5	492.3	170.4	105.0
97.5°	50.7	128.3	758.2	542.6	371.8
100°	66.8	139.5	816.0	826.5	636.6
102.5°	84.7	151.5	803.2	1057.9	892.1
105°	112.5	170.6	737.4	1302.6	1238.3
107.5°	140.7	192.8	660.6	1371.6	1428.8
110°	160.2	209.0	616.5	1345.2	1473.8

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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	178.9	225.2	586.8	1282.8	1466.2
115°	209.0	252.6	559.2	1184.6	1391.1
117.5°	235.6	276.4	542.8	1077.3	1296.0
120°	256.8	291.0	541.1	1016.0	1225.5
122.5°	273.8	308.0	536.9	962.1	1156.8
125°	295.0	327.1	533.7	885.7	1058.9
127.5°	318.1	348.2	532.0	840.0	982.8
130°	330.0	360.1	529.5	808.2	932.7
132.5°	342.7	372.0	529.5	783.3	897.9
135°	360.8	390.9	527.4	748.1	845.7
137.5°	377.7	407.0	527.1	718.4	802.6
140°	390.5	420.6	526.3	693.7	774.6
142.5°	404.9	430.0	528.8	673.9	746.6
145°	425.5	447.3	531.6	647.5	705.6
147.5°	443.1	464.3	536.3	620.8	671.0
150°	458.4	472.9	538.0	612.0	647.3
152.5°	470.3	485.6	539.7	600.0	632.8
155°	486.0	497.4	544.3	585.2	609.1
157.5°	505.5	512.3	545.4	578.5	595.5
160°	515.7	520.9	549.6	573.3	587.8
162.5°	521.6	527.6	550.5	569.0	580.2
165°	536.9	539.0	550.7	562.6	570.9
167.5°	547.3	545.4	555.6	561.0	564.3
170°	550.7	549.7	553.9	555.0	559.2
172.5°	558.3	554.8	556.4	553.3	556.6
175°	562.4	559.3	557.1	553.8	549.6
177.5°	564.1	559.1	556.4	553.0	553.9
180°	558.1	558.1	558.1	558.1	558.1

(END OF REPORT)