

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: P564442

Luminaire Tested: **SQ4-PR1-150U-050D-935-1D-UNV-STD-W-4**

Issue Date: 7/30/2021

Test Information

Test Method: LM-79-2019
Report Number: P564442
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1910-536-25, 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-PR1-150U-050D-935-1D-UNV-STD-W-4
Description: CORELITE SQ4 SUSPENDED LED LUMINAIRE WITH PERCEIVE RIPPLE CONTINUOUS LENS.
DOWNLIGHT 500 LUMENS PER FOOT
UPLIGHT 1500 LUMENS PER FOOT
Light Source: 3500K CCT, 90 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

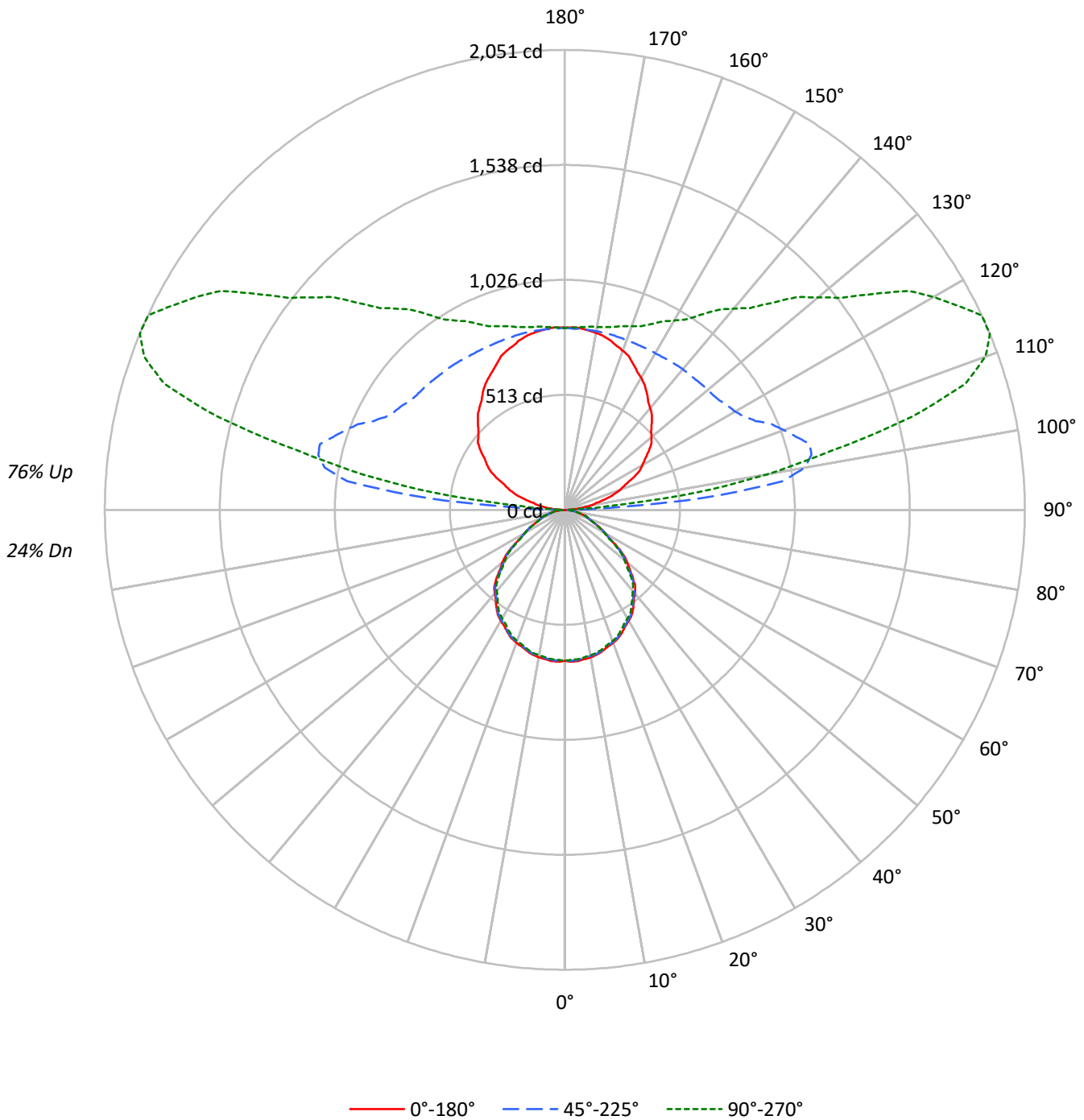
Lumens per Lamp: N/A
Luminaire Lumens: 6919.6 lumens
Efficiency: N/A
Efficacy: 124.2 lumens/watt
Spacing Criteria (0/90/45): 1.26 / 1.24 / 1.35
Luminous Opening: Rectangular (W 0.29' x L: 4' x H: 0')
CIE Type: Semi-Indirect

Input Watts (W): 55.7
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	101	101	101	101	90	90	90	90	69	69	69	50	50	50	33	33	33	24
1	92	88	84	81	82	78	75	73	61	59	57	44	43	42	29	28	28	21
2	84	77	71	66	75	69	64	60	53	50	47	39	37	35	26	25	24	18
3	77	68	61	55	68	61	55	50	47	43	40	34	32	30	23	21	20	15
4	70	60	52	47	62	54	47	42	42	37	34	31	28	25	20	19	17	13
5	64	53	46	40	57	48	41	36	37	33	29	28	24	22	18	17	15	11
6	59	48	40	34	52	43	36	31	33	29	25	25	22	19	17	15	13	10
7	54	43	35	30	48	38	32	27	30	26	22	22	19	17	15	13	12	9
8	50	39	31	26	45	35	28	24	27	23	19	20	17	15	14	12	11	8
9	47	35	28	23	42	32	25	21	25	20	17	19	16	13	13	11	10	7
10	44	32	25	21	39	29	23	19	23	19	15	17	14	12	12	10	9	7

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	0.9
10°-20°	182.2	2.6
20°-30°	274.9	4.0
30°-40°	327.5	4.7
40°-50°	322.9	4.7
50°-60°	246.8	3.6
60°-70°	152.7	2.2
70°-80°	86.7	1.3
80°-90°	28.1	0.4
90°-100°	377.3	5.5
100°-110°	1020.1	14.7
110°-120°	1072.5	15.5
120°-130°	871.2	12.6
130°-140°	683.3	9.9
140°-150°	524.5	7.6
150°-160°	377.2	5.5
160°-170°	230.4	3.3
170°-180°	77.7	1.1
0°-30°	520.8	7.5
0°-40°	848.3	12.3
0°-60°	1417.9	20.5
0°-90°	1685.4	24.4
90°-120°	2469.9	35.7
90°-150°	4548.9	65.7
90°-180°	5234.0	75.6
0°-180°	6919.6	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°	2	5	11	12	11	5
95°	58	206	627	325	193	61
105°	190	293	1132	1669	1601	200
115°	334	408	938	1817	2051	330
125°	457	524	846	1428	1677	407
135°	548	613	823	1153	1305	423
145°	637	685	812	987	1062	399
155°	719	747	805	885	914	332
165°	783	791	808	840	844	221
175°	813	812	809	820	818	77
180°	812	812	812	812	812	

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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°	6.4	8.9	11.6	11.7	11.1
90°	1.7	5.2	11.4	12.2	11.4
92.5°	24.8	90.4	178.4	77.5	56.1
95°	58.5	205.5	627.4	324.7	193.1
97.5°	94.0	235.7	978.0	809.4	594.4
100°	120.6	247.9	1087.1	1133.7	916.7
102.5°	145.1	264.9	1125.6	1379.7	1217.3
105°	189.6	293.0	1131.7	1669.3	1600.9
107.5°	230.9	325.2	1082.2	1850.0	1872.7
110°	263.0	348.5	1038.2	1898.5	1995.1



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	291.7	371.7	997.6	1888.8	2051.0
115°	333.8	408.2	938.5	1816.9	2051.0
117.5°	375.1	444.8	899.6	1706.9	1972.3
120°	400.2	468.6	876.5	1628.1	1898.9
122.5°	424.0	491.0	862.5	1543.5	1816.4
125°	457.0	523.7	845.9	1427.5	1677.0
127.5°	487.4	552.9	836.1	1332.8	1552.2
130°	504.2	571.7	831.9	1274.2	1472.5
132.5°	521.7	588.5	827.7	1221.5	1404.0
135°	547.9	612.9	823.2	1152.6	1304.7
137.5°	574.3	635.7	819.3	1096.7	1220.6
140°	592.5	649.7	817.9	1060.8	1171.0
142.5°	610.0	663.8	815.2	1028.3	1124.9
145°	637.1	684.9	811.8	986.6	1061.8
147.5°	661.7	704.1	808.0	948.8	1006.5
150°	679.9	717.5	806.6	928.2	974.4
152.5°	696.7	729.5	805.9	909.2	947.1
155°	719.2	747.4	804.8	885.0	914.1
157.5°	742.6	762.3	805.0	868.2	887.3
160°	755.9	772.1	805.7	857.6	871.3
162.5°	766.4	779.9	806.4	849.1	859.4
165°	783.0	790.7	808.3	839.9	844.2
167.5°	794.4	799.7	808.5	832.0	834.0
170°	801.3	803.9	809.2	828.4	828.4
172.5°	806.9	807.4	809.2	824.2	823.5
175°	812.7	811.8	809.2	819.7	817.9
177.5°	814.6	812.6	809.0	816.0	813.9
180°	811.8	811.8	811.8	811.8	811.8

(END OF REPORT)