

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: P564154

Luminaire Tested: **SQ4-PR1-0U-050D-935-1D-UNV-STD-W-4**

Issue Date: 7/30/2021

Test Information

Test Method: LM-79-2019
Report Number: P564154
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (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-PR1-0U-050D-935-1D-UNV-STD-W-4
Description: CORELITE SQ4 SUSPENDED LED LUMINAIRE WITH PERCEIVE RIPPLE CONTINUOUS LENS.
DOWNLIGHT 500 LUMENS PER FOOT
DIRECT ONLY
Light Source: 3500K CCT, 90 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

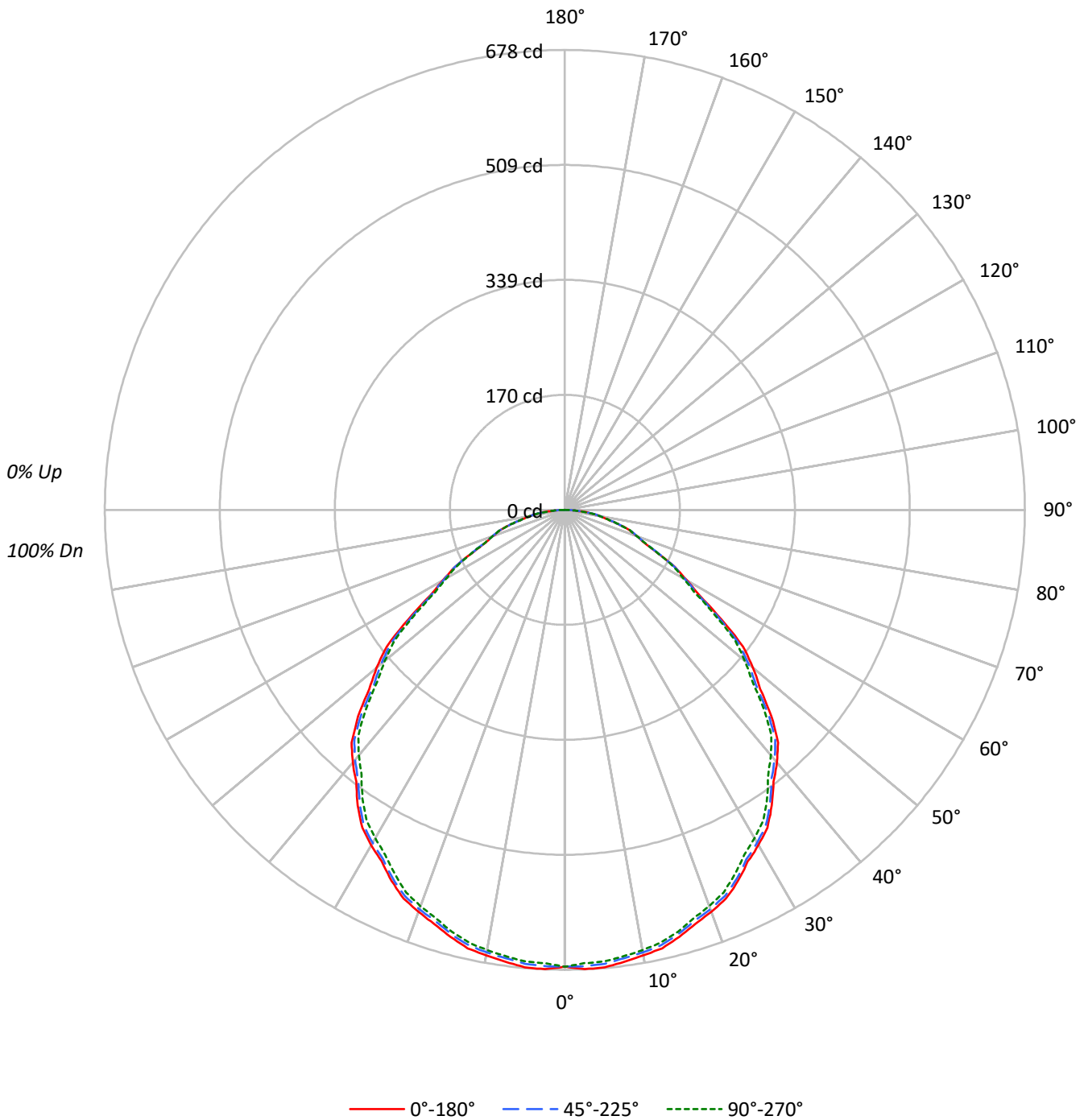
Lumens per Lamp: N/A
Luminaire Lumens: 1683.7 lumens
Efficiency: N/A
Efficacy: 103.9 lumens/watt
Spacing Criteria (0/90/45): 1.26 / 1.24 / 1.35
Luminous Opening: Rectangular (W 0.29' x L: 4' x H: 0')
CIE Type: Direct

Input Watts (W): 16.2
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	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100				100
1	110	105	101	98	107	103	99	96	99	96	93	95	92	90	91	89	87	85				85
2	100	93	86	81	98	91	85	80	87	82	78	84	80	76	81	78	75	72				72
3	92	82	74	68	90	80	73	68	78	71	66	75	70	65	72	68	64	62				62
4	85	73	65	58	82	72	64	58	69	63	57	67	61	56	65	60	56	54				54
5	78	66	57	51	76	65	57	50	63	55	50	61	54	49	59	53	49	47				47
6	72	59	51	45	70	58	50	44	57	49	44	55	49	44	53	48	43	41				41
7	67	54	46	40	65	53	45	39	52	44	39	50	44	39	49	43	39	37				37
8	63	49	41	35	61	49	41	35	47	40	35	46	40	35	45	39	35	33				33
9	58	45	37	32	57	45	37	32	44	37	32	43	36	32	42	36	31	30				30
10	55	42	34	29	54	41	34	29	40	34	29	40	33	29	39	33	29	27				27

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	3.8
10°-20°	182.2	10.8
20°-30°	274.9	16.3
30°-40°	327.5	19.5
40°-50°	322.9	19.2
50°-60°	246.8	14.7
60°-70°	152.7	9.1
70°-80°	86.7	5.2
80°-90°	26.4	1.6
90°-100°	0.0	0.0
100°-110°	0.0	0.0
110°-120°	0.0	0.0
120°-130°	0.0	0.0
130°-140°	0.0	0.0
140°-150°	0.0	0.0
150°-160°	0.0	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-30°	520.8	30.9
0°-40°	848.3	50.4
0°-60°	1417.9	84.2
0°-90°	1683.7	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1683.7	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	25
90°	0	0	0	0	0	



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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°	6.0	7.8	9.3	9.3	8.8
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)