

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: P561936

Luminaire Tested: **SQ4-PR1-0U-050D-92765-1D-UNV-STD-W-4 (4000K)**

Issue Date: 7/30/2021

Test Information

Test Method: LM-79-2019
Report Number: P561936
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-92765-1D-UNV-STD-W-4 (4000K)
Description: CORELITE SQ4 SUSPENDED LED LUMINAIRE WITH PERCEIVE RIPPLE CONTINUOUS LENS
DOWNLIGHT 500 LUMENS PER FOOT
DIRECT ONLY
Light Source: 2700K/65000K CCT, 90 CRI LEDS, TUNED TO 4000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2033.1 lumens
Efficiency: N/A
Efficacy: 98.2 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: Direct

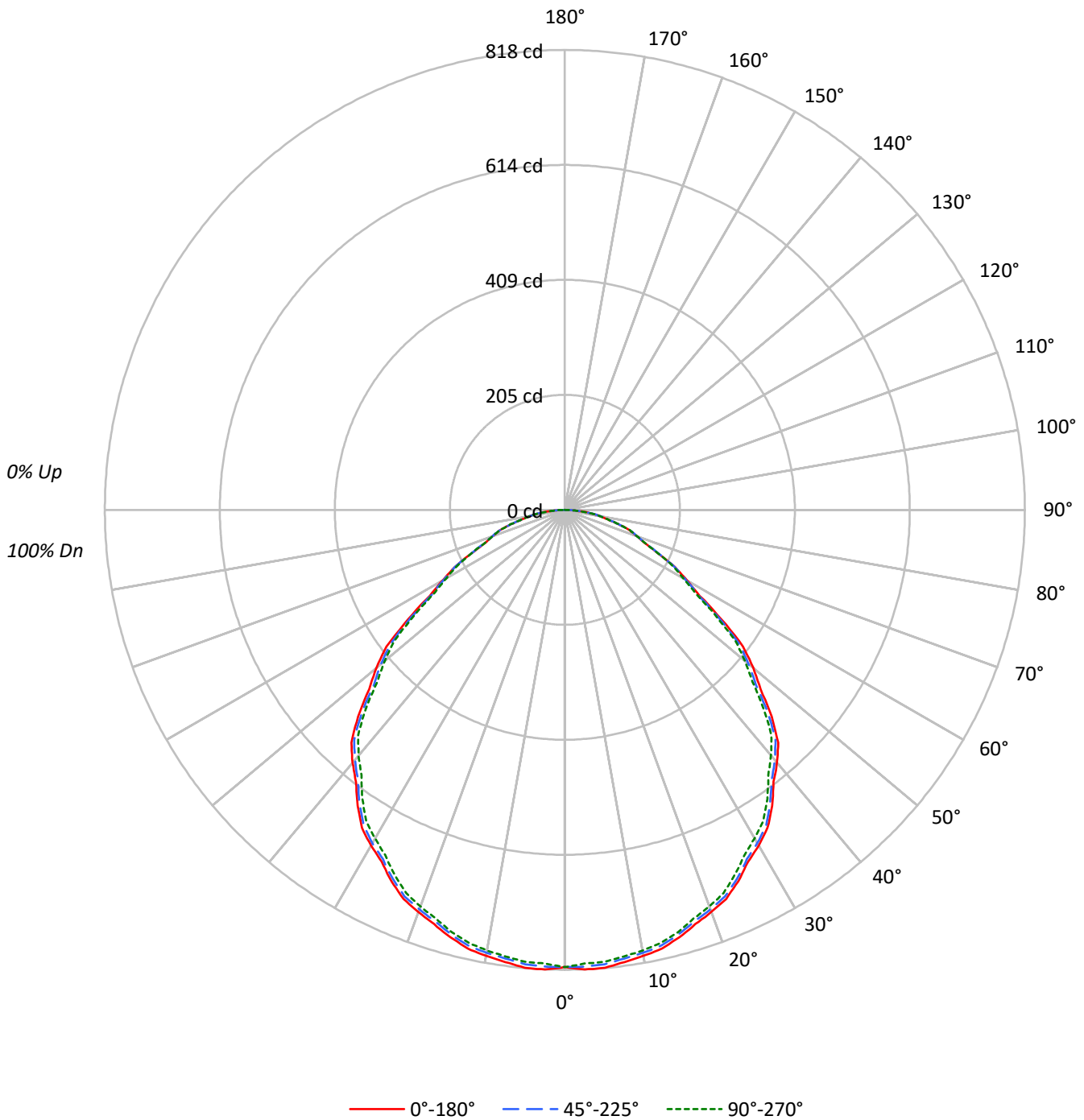
Input Watts (W): 20.7
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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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	50	30	10	0	
RCR																						
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100				
1	110	105	101	98	107	103	99	96	99	96	93	95	92	90	91	89	87	85				
2	100	93	86	81	98	91	85	80	87	82	78	84	80	76	81	78	75	72				
3	92	82	74	68	90	80	73	68	78	71	66	75	70	65	72	68	64	62				
4	85	73	65	58	82	72	64	58	69	63	57	67	61	56	65	60	56	54				
5	78	66	57	51	76	65	57	50	63	55	50	61	54	49	59	53	49	47				
6	72	59	51	45	70	58	50	44	57	49	44	55	49	44	53	48	43	41				
7	67	54	46	40	65	53	45	39	52	44	39	50	44	39	49	43	39	37				
8	63	49	41	35	61	49	41	35	47	40	35	46	40	35	45	39	35	33				
9	58	45	37	32	57	45	37	32	44	37	32	43	36	32	42	36	31	30				
10	55	42	34	29	54	41	34	29	40	34	29	40	33	29	39	33	29	27				

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	7504	7504	7504
5°	7571	7513	7474
10°	7547	7495	7455
15°	7514	7467	7427
20°	7477	7429	7373
25°	7423	7373	7288
30°	7343	7291	7187
35°	7235	7172	7070
40°	7070	6994	6867
45°	6782	6664	6527
50°	6274	6123	6003
55°	5475	5352	5239
60°	4615	4576	4486
65°	3991	4006	3975
70°	3666	3685	3685
75°	3522	3522	3547
80°	3310	3347	3310
85°	2668	2964	2964



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	76.9	3.8
10°-20°	220.0	10.8
20°-30°	331.9	16.3
30°-40°	395.5	19.5
40°-50°	389.9	19.2
50°-60°	298.0	14.7
60°-70°	184.4	9.1
70°-80°	104.7	5.2
80°-90°	31.9	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°	628.9	30.9
0°-40°	1024.3	50.4
0°-60°	1712.2	84.2
0°-90°	2033.1	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2033.1	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	813	813	813	813	813	
5°	818	809	811	808	807	78
15°	787	778	782	779	778	222
25°	729	720	724	717	716	336
35°	642	635	637	628	628	401
45°	520	513	511	502	500	398
55°	340	335	333	327	326	305
65°	183	182	184	182	182	185
75°	99	99	99	100	100	104
85°	25	27	28	28	28	30
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	813.3	813.3	813.3	813.3	813.3
2.5°	818.3	811.2	813.3	811.5	807.7
5°	817.5	808.6	811.2	808.4	807.0
7.5°	811.2	802.4	805.0	802.2	801.4
10°	805.6	797.4	800.0	797.2	795.8
12.5°	799.4	790.7	793.8	790.4	789.1
15°	786.7	778.5	781.8	778.9	777.6
17.5°	772.7	763.9	767.2	763.9	762.2
20°	761.5	753.2	756.6	751.6	750.9
22.5°	749.1	740.9	744.2	737.6	737.5
25°	729.2	720.3	724.3	716.6	715.9
27.5°	705.6	697.3	700.7	692.8	692.0
30°	689.3	681.1	684.4	676.0	674.6
32.5°	670.8	663.1	665.9	657.5	656.7
35°	642.4	634.8	636.8	628.3	627.7
37.5°	610.0	603.2	604.3	595.0	594.3
40°	587.0	580.2	580.7	570.9	570.2
42.5°	561.8	555.0	554.4	544.6	543.9
45°	519.8	512.9	510.7	501.5	500.2
47.5°	471.9	465.0	460.8	453.3	452.4
50°	437.1	430.3	426.6	420.3	418.2
52.5°	399.6	392.7	389.6	383.8	381.8
55°	340.4	335.0	332.7	327.1	325.7
57.5°	284.3	280.6	279.9	274.4	273.9
60°	250.1	248.0	248.0	243.1	243.1
62.5°	220.9	219.4	220.5	217.3	216.7
65°	182.8	181.5	183.5	182.1	182.1
67.5°	152.7	152.7	154.0	153.4	153.4
70°	135.9	135.9	136.6	136.6	136.6
72.5°	120.8	120.2	122.0	122.0	121.5
75°	98.8	98.8	98.8	99.5	99.5
77.5°	76.9	77.1	77.6	77.5	76.9
80°	62.3	63.0	63.0	62.3	62.3
82.5°	47.8	48.5	48.5	48.3	47.8
85°	25.2	26.6	28.0	28.0	28.0
87.5°	7.3	9.5	11.2	11.2	10.6
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)