

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: P523778

Luminaire Tested: **SQ4-PP3-0U-050D-92765-1D-UNV-STD-W-4 (4000K)**

Issue Date: 5/24/2021

Test Information

Test Method: LM-79-2019
Report Number: P523778
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2103-172-1)
Test Lab: INNOVATION CENTER
Issue Date: 5/24/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: CORELITE
Catalog Number: SQ4-PP3-0U-050D-92765-1D-UNV-STD-W-4 (4000K)
Description: CORELITE SQ4 SUSPENDED LED LUMINAIRE WITH PERCEIVE PRISM 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: 2045.2 lumens
Efficiency: N/A
Efficacy: 98.8 lumens/watt
Spacing Criteria (0/90/45): 1.24 / 1.22 / 1.33
Luminous Opening: Rectangular (W 0.29' x L: 4' x H: 0')
CIE Type: Direct

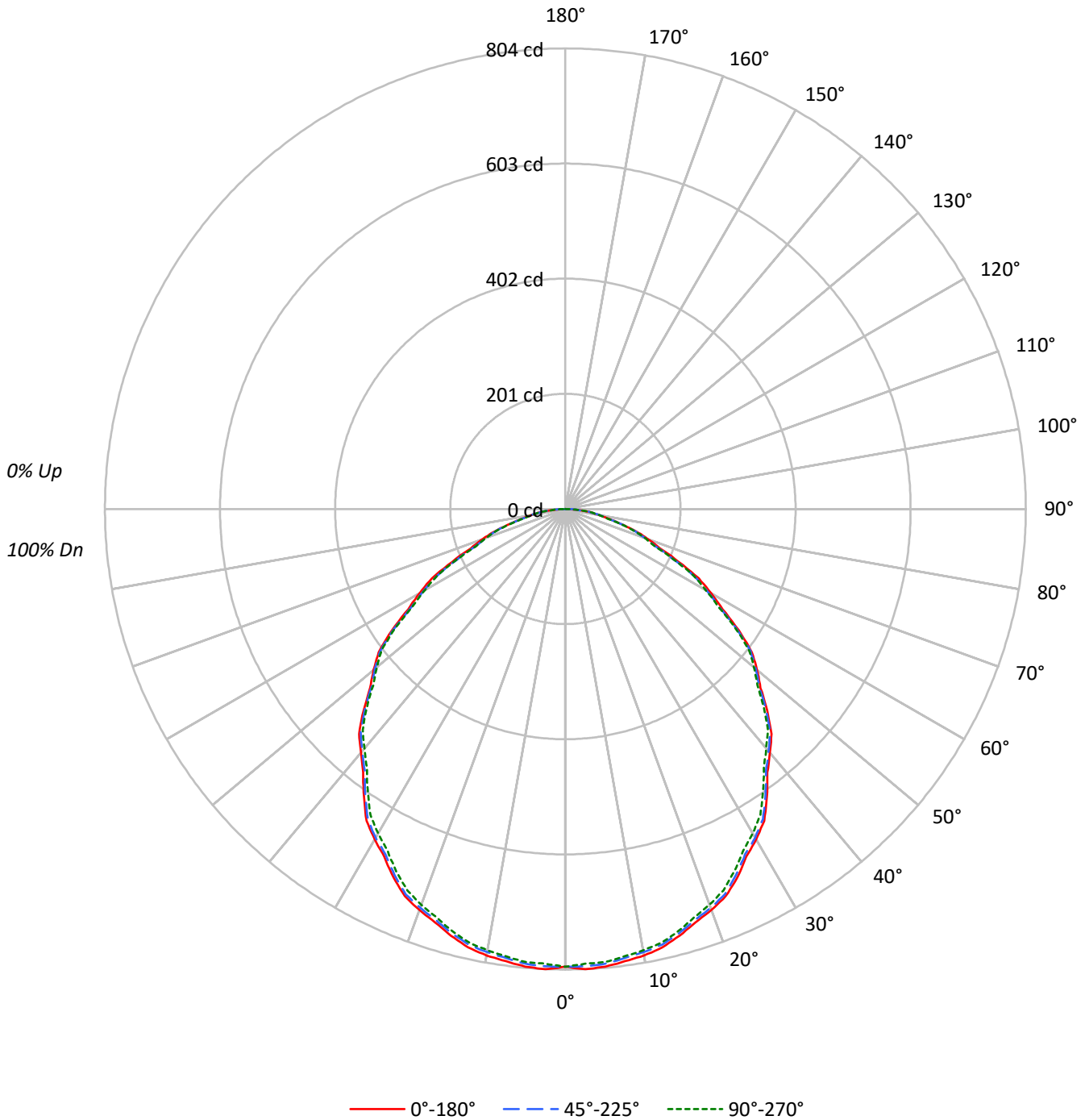
Input Watts (W): 20.7
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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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			100	
1	109	105	101	97	107	103	99	96	98	95	93	95	92	90	91	89	87	85			85	
2	100	92	86	80	97	90	84	79	87	82	77	84	79	76	81	77	74	72			72	
3	92	81	74	67	89	80	73	67	77	71	66	74	69	64	72	67	63	61			61	
4	84	72	64	57	82	71	63	57	69	62	56	66	60	56	64	59	55	53			53	
5	77	65	56	50	75	64	56	49	62	54	49	60	53	48	58	52	48	46			46	
6	72	59	50	44	70	58	49	43	56	49	43	54	48	43	53	47	42	40			40	
7	66	53	45	39	65	52	44	39	51	44	38	49	43	38	48	42	38	36			36	
8	62	49	40	35	60	48	40	34	47	39	34	45	39	34	44	38	34	32			32	
9	58	45	37	31	56	44	36	31	43	36	31	42	35	31	41	35	31	29			29	
10	54	41	34	28	53	41	33	28	40	33	28	39	33	28	38	32	28	26			26	

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	7373	7373	7373
5°	7427	7381	7355
10°	7414	7362	7329
15°	7365	7325	7285
20°	7317	7275	7220
25°	7230	7180	7108
30°	7095	7058	6968
35°	6910	6863	6776
40°	6689	6647	6571
45°	6506	6460	6396
50°	6272	6232	6172
55°	5948	5870	5825
60°	5414	5259	5233
65°	4770	4571	4556
70°	4119	3949	3949
75°	3543	3493	3444
80°	3124	3161	3087
85°	2445	2668	2668



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	75.6	3.7
10°-20°	215.8	10.5
20°-30°	323.2	15.8
30°-40°	379.1	18.5
40°-50°	380.2	18.6
50°-60°	324.4	15.9
60°-70°	211.5	10.3
70°-80°	106.1	5.2
80°-90°	29.4	1.4
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°	614.5	30.0
0°-40°	993.6	48.6
0°-60°	1698.2	83.0
0°-90°	2045.2	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2045.2	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	799	799	799	799	799	
5°	802	794	797	794	794	76
15°	771	764	767	764	763	218
25°	710	702	705	699	698	327
35°	614	607	609	602	602	383
45°	499	495	495	490	490	384
55°	370	368	365	363	362	329
65°	218	214	209	208	209	218
75°	99	99	98	97	97	108
85°	23	25	25	25	25	28
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	799.1	799.1	799.1	799.1	799.1
2.5°	804.1	797.6	799.1	797.9	794.6
5°	801.9	794.4	797.0	794.2	794.2
7.5°	796.4	788.2	790.8	788.0	787.9
10°	791.4	783.2	785.8	783.0	782.3
12.5°	784.1	775.9	779.1	775.7	775.6
15°	771.1	763.6	766.9	764.0	762.7
17.5°	756.4	748.2	752.2	748.2	747.7
20°	745.2	737.0	741.0	735.4	735.4
22.5°	731.7	723.5	728.1	720.8	720.8
25°	710.2	701.9	705.3	698.9	698.2
27.5°	684.5	676.4	679.9	672.8	672.6
30°	666.0	658.5	662.5	654.8	654.1
32.5°	645.9	638.9	641.8	634.1	633.4
35°	613.5	607.3	609.3	602.3	601.6
37.5°	579.5	573.2	575.4	569.4	569.1
40°	555.4	551.3	551.9	546.9	545.6
42.5°	533.0	528.3	528.9	524.0	523.7
45°	498.6	495.2	495.1	490.2	490.2
47.5°	462.2	459.6	458.9	454.8	454.7
50°	437.0	435.0	434.2	430.7	430.0
52.5°	410.7	409.7	407.3	404.4	404.2
55°	369.8	368.4	364.9	362.8	362.1
57.5°	325.4	322.6	318.7	315.6	316.1
60°	293.4	290.7	285.0	283.6	283.6
62.5°	262.6	259.3	253.7	251.7	252.8
65°	218.5	214.4	209.4	208.0	208.7
67.5°	178.4	174.8	169.3	169.3	168.8
70°	152.7	150.6	146.4	146.4	146.4
72.5°	129.7	128.7	125.6	125.6	125.1
75°	99.4	99.4	98.0	97.3	96.6
77.5°	74.5	74.8	74.1	73.4	72.1
80°	58.8	60.2	59.5	58.8	58.1
82.5°	44.3	45.6	45.5	44.3	44.1
85°	23.1	25.2	25.2	25.2	25.2
87.5°	6.2	8.4	9.0	9.0	9.5
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)