

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: P523779

Luminaire Tested: **SQ4-PP3-0U-050D-92765-1D-UNV-STD-W-4 (4500K)**

Issue Date: 5/24/2021

Test Information

Test Method: LM-79-2019
Report Number: P523779
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 (4500K)
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 4500K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2078.3 lumens
Efficiency: N/A
Efficacy: 100.4 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

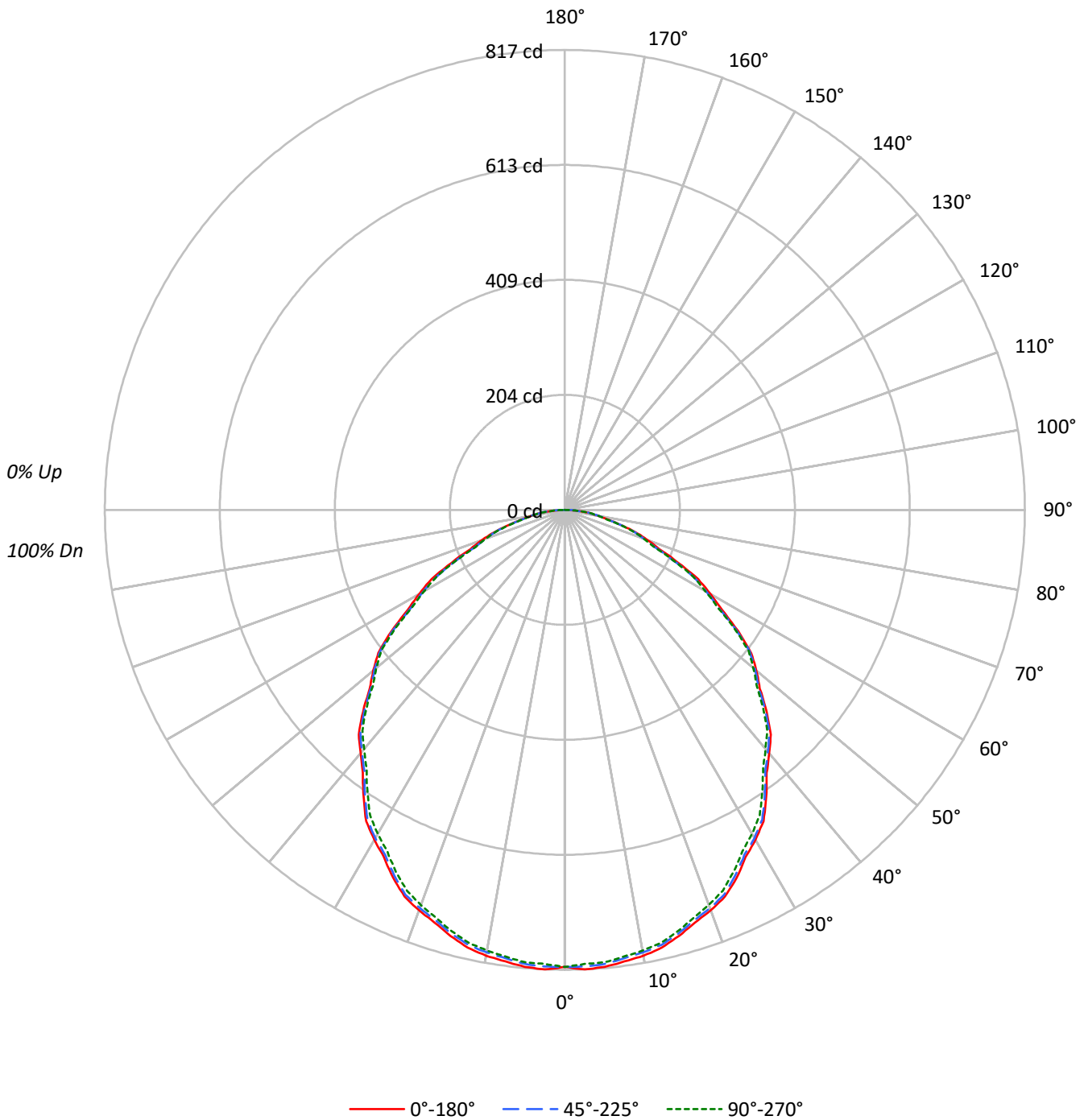
Input Watts (W): 20.7
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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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	0
RCR																				
0	119	119	119	119	116	116	116	116	111	111	111		106	106	106		102	102	102	100
1	109	105	101	97	107	103	99	96	98	95	93		95	92	90		91	89	87	85
2	100	92	86	80	97	90	84	79	87	82	77		84	79	76		81	77	74	72
3	92	81	74	67	89	80	73	67	77	71	66		74	69	64		72	67	63	61
4	84	72	64	57	82	71	63	57	69	62	56		66	60	56		64	59	55	53
5	77	65	56	50	75	64	56	49	62	54	49		60	53	48		58	52	48	46
6	72	59	50	44	70	58	49	43	56	49	43		54	48	43		53	47	42	40
7	66	53	45	39	65	52	44	39	51	44	38		49	43	38		48	42	38	36
8	62	49	40	35	60	48	40	34	47	39	34		45	39	34		44	38	34	32
9	58	45	37	31	56	44	36	31	43	36	31		42	35	31		41	35	31	29
10	54	41	34	28	53	41	33	28	40	33	28		39	33	28		38	32	28	26

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	7492	7492	7492
5°	7546	7501	7474
10°	7534	7481	7447
15°	7484	7444	7403
20°	7434	7392	7336
25°	7346	7295	7223
30°	7210	7172	7081
35°	7021	6973	6885
40°	6796	6754	6677
45°	6611	6564	6500
50°	6374	6333	6272
55°	6043	5964	5918
60°	5503	5344	5318
65°	4846	4646	4630
70°	4184	4011	4011
75°	3604	3550	3501
80°	3177	3214	3140
85°	2488	2710	2710



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	76.8	3.7
10°-20°	219.2	10.5
20°-30°	328.4	15.8
30°-40°	385.2	18.5
40°-50°	386.4	18.6
50°-60°	329.6	15.9
60°-70°	215.0	10.3
70°-80°	107.9	5.2
80°-90°	29.9	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°	624.4	30.0
0°-40°	1009.6	48.6
0°-60°	1725.6	83.0
0°-90°	2078.3	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2078.3	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	812	812	812	812	812	
5°	815	807	810	807	807	77
15°	784	776	779	776	775	221
25°	722	713	717	710	710	332
35°	623	617	619	612	611	389
45°	507	503	503	498	498	390
55°	376	374	371	369	368	334
65°	222	218	213	211	212	222
75°	101	101	100	99	98	110
85°	24	26	26	26	26	28
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	812.0	812.0	812.0	812.0	812.0
2.5°	817.1	810.4	812.0	810.8	807.4
5°	814.8	807.2	809.9	807.0	807.0
7.5°	809.3	800.9	803.6	800.7	800.6
10°	804.2	795.8	798.5	795.6	794.9
12.5°	796.8	788.4	791.6	788.2	788.1
15°	783.5	775.9	779.3	776.4	775.0
17.5°	768.6	760.2	764.3	760.3	759.8
20°	757.2	748.8	752.9	747.2	747.2
22.5°	743.5	735.2	739.8	732.4	732.4
25°	721.6	713.3	716.6	710.2	709.5
27.5°	695.6	687.4	690.9	683.6	683.5
30°	676.8	669.1	673.2	665.4	664.7
32.5°	656.3	649.2	652.2	644.3	643.6
35°	623.4	617.1	619.1	612.0	611.3
37.5°	588.8	582.4	584.7	578.6	578.3
40°	564.3	560.2	560.8	555.8	554.4
42.5°	541.6	536.8	537.4	532.4	532.2
45°	506.7	503.2	503.1	498.2	498.2
47.5°	469.7	467.0	466.3	462.1	462.0
50°	444.1	442.0	441.2	437.6	437.0
52.5°	417.3	416.3	413.9	410.9	410.8
55°	375.7	374.4	370.8	368.6	367.9
57.5°	330.6	327.8	323.8	320.7	321.2
60°	298.2	295.4	289.6	288.2	288.2
62.5°	266.9	263.5	257.8	255.8	256.9
65°	222.0	217.9	212.8	211.4	212.1
67.5°	181.3	177.6	172.1	172.1	171.5
70°	155.1	153.1	148.7	148.7	148.7
72.5°	131.8	130.8	127.7	127.7	127.1
75°	101.1	101.1	99.6	98.9	98.2
77.5°	75.7	76.0	75.3	74.6	73.3
80°	59.8	61.2	60.5	59.8	59.1
82.5°	45.0	46.4	46.3	45.0	44.8
85°	23.5	25.6	25.6	25.6	25.6
87.5°	6.3	8.5	9.1	9.1	9.7
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)