

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: P523792

Luminaire Tested: **SQ4-PP3-0U-075D-92765-1D-UNV-STD-W-4 (4500K)**

Issue Date: 5/24/2021

Test Information

Test Method: LM-79-2019
Report Number: P523792
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-075D-92765-1D-UNV-STD-W-4 (4500K)
Description: CORELITE SQ4 SUSPENDED LED LUMINAIRE WITH PERCEIVE PRISM CONTINUOUS LENS
DOWNLIGHT 750 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: 3112.4 lumens
Efficiency: N/A
Efficacy: 97.6 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

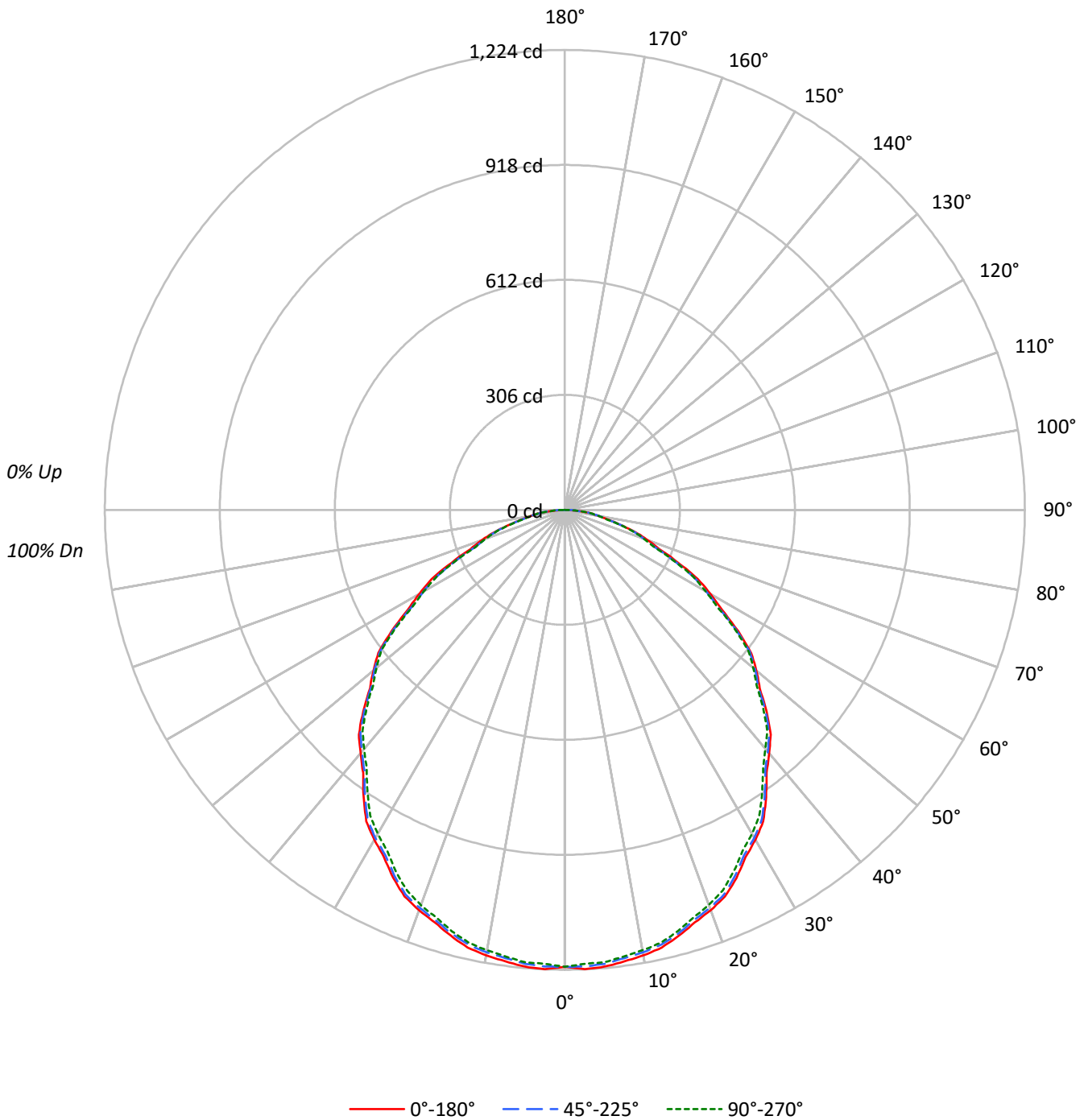
Input Watts (W): 31.9
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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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	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°	11220	11220	11220
5°	11302	11233	11193
10°	11283	11203	11153
15°	11208	11147	11086
20°	11134	11071	10988
25°	11002	10925	10817
30°	10798	10741	10604
35°	10515	10443	10311
40°	10180	10115	9999
45°	9901	9832	9734
50°	9545	9485	9393
55°	9051	8932	8863
60°	8241	8005	7964
65°	7259	6958	6934
70°	6266	6007	6007
75°	5393	5319	5244
80°	4755	4814	4702
85°	3726	4065	4065



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	115.0	3.7
10°-20°	328.3	10.5
20°-30°	491.8	15.8
30°-40°	576.8	18.5
40°-50°	578.7	18.6
50°-60°	493.6	15.9
60°-70°	321.9	10.3
70°-80°	161.5	5.2
80°-90°	44.7	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°	935.1	30.0
0°-40°	1512.0	48.6
0°-60°	2584.3	83.0
0°-90°	3112.4	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3112.4	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1216	1216	1216	1216	1216	
5°	1220	1209	1213	1209	1209	116
15°	1173	1162	1167	1163	1161	331
25°	1081	1068	1073	1064	1063	497
35°	934	924	927	916	916	583
45°	759	754	754	746	746	584
55°	563	561	555	552	551	500
65°	332	326	319	317	318	332
75°	151	151	149	148	147	164
85°	35	38	38	38	38	43
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1216.1	1216.1	1216.1	1216.1	1216.1
2.5°	1223.7	1213.7	1216.1	1214.2	1209.2
5°	1220.3	1208.9	1212.9	1208.6	1208.6
7.5°	1212.0	1199.5	1203.5	1199.2	1199.0
10°	1204.3	1191.8	1195.8	1191.5	1190.5
12.5°	1193.2	1180.7	1185.6	1180.5	1180.2
15°	1173.4	1162.0	1167.0	1162.7	1160.6
17.5°	1151.0	1138.5	1144.6	1138.7	1137.8
20°	1134.0	1121.5	1127.6	1119.1	1119.1
22.5°	1113.5	1101.0	1108.0	1096.9	1096.9
25°	1080.7	1068.2	1073.2	1063.6	1062.6
27.5°	1041.7	1029.4	1034.7	1023.8	1023.6
30°	1013.6	1002.1	1008.2	996.5	995.4
32.5°	982.9	972.2	976.7	964.9	963.9
35°	933.6	924.2	927.2	916.5	915.5
37.5°	881.8	872.2	875.6	866.5	866.1
40°	845.2	838.9	839.8	832.3	830.2
42.5°	811.1	804.0	804.9	797.4	797.0
45°	758.8	753.6	753.5	746.0	746.0
47.5°	703.4	699.5	698.3	692.1	691.9
50°	665.0	661.9	660.8	655.4	654.4
52.5°	625.0	623.5	619.9	615.4	615.2
55°	562.7	560.6	555.3	552.1	551.0
57.5°	495.2	491.0	484.9	480.3	481.1
60°	446.6	442.4	433.8	431.6	431.6
62.5°	399.7	394.7	386.0	383.1	384.7
65°	332.5	326.3	318.7	316.6	317.6
67.5°	271.6	265.9	257.7	257.7	256.9
70°	232.3	229.2	222.7	222.7	222.7
72.5°	197.4	195.9	191.2	191.2	190.3
75°	151.3	151.3	149.2	148.1	147.1
77.5°	113.4	113.8	112.8	111.7	109.8
80°	89.5	91.6	90.6	89.5	88.5
82.5°	67.4	69.4	69.3	67.4	67.1
85°	35.2	38.3	38.4	38.4	38.4
87.5°	9.4	12.7	13.6	13.7	14.5
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)