

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: P523801

Luminaire Tested: **SQ4-PP3-0U-100D-92765-1D-UNV-STD-W-4 (2700K)**

Issue Date: 5/24/2021

Test Information

Test Method: LM-79-2019
Report Number: P523801
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-100D-92765-1D-UNV-STD-W-4 (2700K)
Description: CORELITE SQ4 SUSPENDED LED LUMINAIRE WITH PERCEIVE PRISM CONTINUOUS LENS
DOWNLIGHT 1000 LUMENS PER FOOT
DIRECT ONLY
Light Source: 2700K/65000K CCT, 90 CRI LEDS, TUNED TO 2700K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

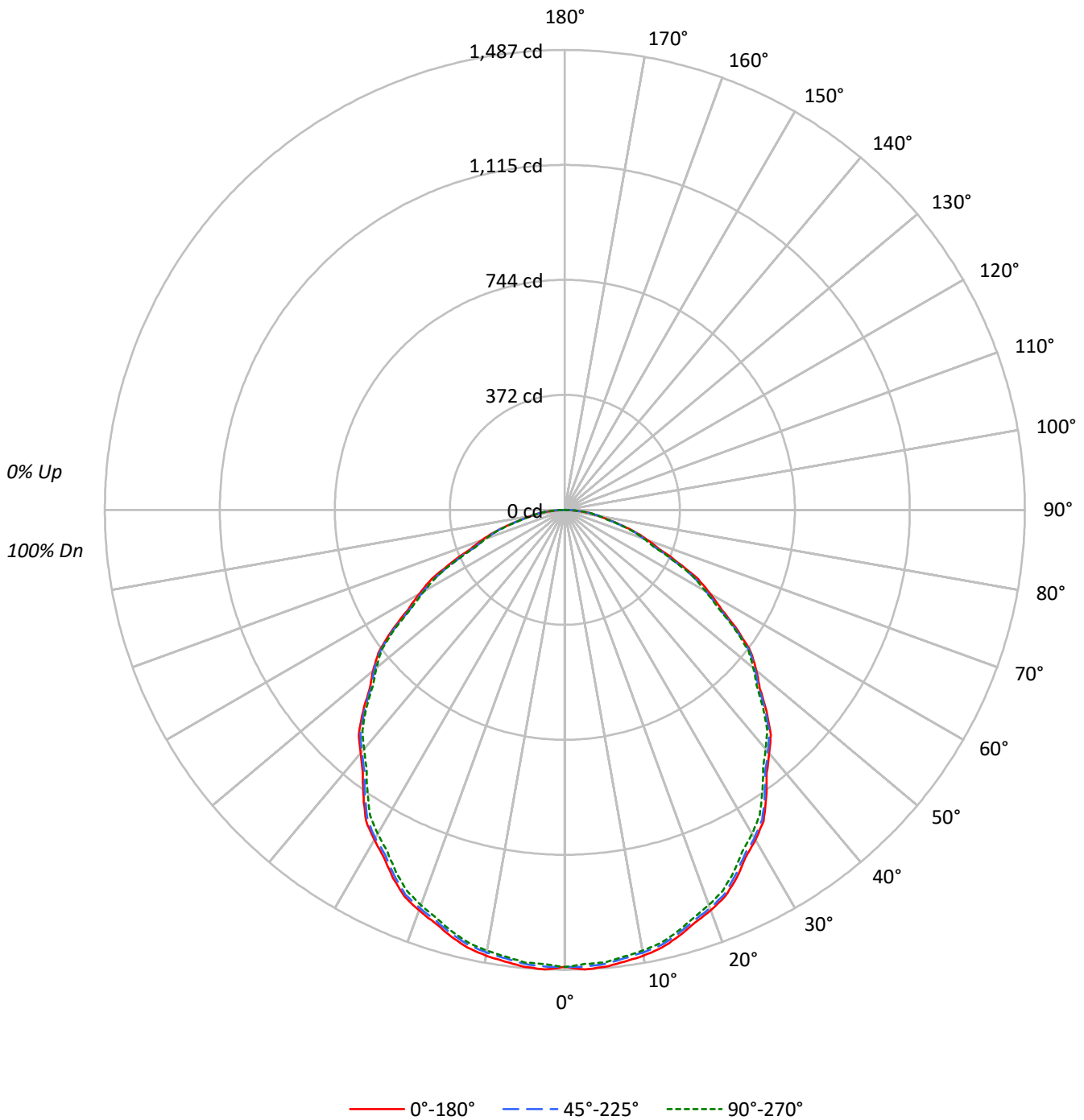
Lumens per Lamp: N/A
Luminaire Lumens: 3783.1 lumens
Efficiency: N/A
Efficacy: 89.4 lumens/watt
Spacing Criteria (0/90/45): 1.24 / 1.22 / 1.33
Luminous Opening: Rectangular (W 0.29' x L: 4' x H: 0')
CIE Type: Direct

Input Watts (W): 42.3
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°	13637	13637	13637
5°	13738	13653	13605
10°	13715	13617	13556
15°	13624	13549	13475
20°	13534	13457	13355
25°	13372	13280	13148
30°	13125	13056	12891
35°	12781	12694	12534
40°	12373	12294	12155
45°	12035	11950	11832
50°	11603	11529	11417
55°	11002	10856	10772
60°	10016	9728	9682
65°	8824	8455	8427
70°	7618	7302	7302
75°	6559	6466	6374
80°	5781	5850	5712
85°	4520	4933	4933



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	139.8	3.7
10°-20°	399.1	10.5
20°-30°	597.8	15.8
30°-40°	701.2	18.5
40°-50°	703.4	18.6
50°-60°	600.0	15.9
60°-70°	391.3	10.3
70°-80°	196.3	5.2
80°-90°	54.3	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°	1136.6	30.0
0°-40°	1837.8	48.6
0°-60°	3141.2	83.0
0°-90°	3783.1	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3783.1	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1478	1478	1478	1478	1478	
5°	1483	1469	1474	1469	1469	141
15°	1426	1412	1418	1413	1411	402
25°	1314	1298	1304	1293	1292	604
35°	1135	1123	1127	1114	1113	709
45°	922	916	916	907	907	710
55°	684	682	675	671	670	608
65°	404	397	387	385	386	403
75°	184	184	181	180	179	200
85°	43	46	47	47	47	52
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1478.1	1478.1	1478.1	1478.1	1478.1
2.5°	1487.4	1475.3	1478.1	1475.9	1469.8
5°	1483.3	1469.4	1474.2	1469.0	1469.0
7.5°	1473.2	1458.0	1462.8	1457.6	1457.4
10°	1463.9	1448.7	1453.5	1448.3	1447.0
12.5°	1450.4	1435.2	1441.1	1434.8	1434.6
15°	1426.3	1412.4	1418.5	1413.3	1410.7
17.5°	1399.1	1383.9	1391.3	1384.0	1383.0
20°	1378.4	1363.2	1370.6	1360.2	1360.2
22.5°	1353.5	1338.3	1346.8	1333.3	1333.3
25°	1313.6	1298.4	1304.5	1292.8	1291.6
27.5°	1266.2	1251.2	1257.6	1244.4	1244.2
30°	1232.0	1218.0	1225.5	1211.2	1210.0
32.5°	1194.7	1181.7	1187.2	1172.9	1171.6
35°	1134.8	1123.4	1127.0	1114.1	1112.8
37.5°	1071.9	1060.2	1064.3	1053.2	1052.7
40°	1027.3	1019.7	1020.8	1011.7	1009.2
42.5°	985.8	977.2	978.3	969.2	968.7
45°	922.4	916.0	915.9	906.8	906.8
47.5°	855.0	850.2	848.8	841.3	841.0
50°	808.4	804.6	803.2	796.7	795.4
52.5°	759.7	757.9	753.4	748.0	747.7
55°	684.0	681.5	674.9	671.0	669.7
57.5°	601.9	596.8	589.4	583.8	584.8
60°	542.8	537.7	527.2	524.7	524.7
62.5°	485.8	479.7	469.2	465.6	467.7
65°	404.2	396.6	387.3	384.8	386.0
67.5°	330.1	323.2	313.2	313.2	312.2
70°	282.4	278.6	270.7	270.7	270.7
72.5°	239.9	238.1	232.4	232.4	231.4
75°	184.0	184.0	181.4	180.0	178.8
77.5°	137.8	138.3	137.1	135.7	133.4
80°	108.8	111.4	110.1	108.8	107.5
82.5°	81.9	84.4	84.2	81.9	81.6
85°	42.7	46.5	46.6	46.6	46.6
87.5°	11.4	15.5	16.6	16.6	17.6
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)