

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: P562017

Luminaire Tested: **SQ4-PR1-100U-100D-92765-1D-UNV-STD-W-4 (5700K)**

Issue Date: 7/30/2021

Test Information

Test Method: LM-79-2019
Report Number: P562017
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2101-105-51, 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-PR1-100U-100D-92765-1D-UNV-STD-W-4 (5700K)
Description: CORELITE SQ4 SUSPENDED LED LUMINAIRE WITH PERCEIVE RIPPLE CONTINUOUS LENS
DOWNLIGHT 1000 LUMENS PER FOOT
UPLIGHT 1000 LUMENS PER FOOT
Light Source: 2700K/65000K CCT, 90 CRI LEDS, TUNED TO 5700K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

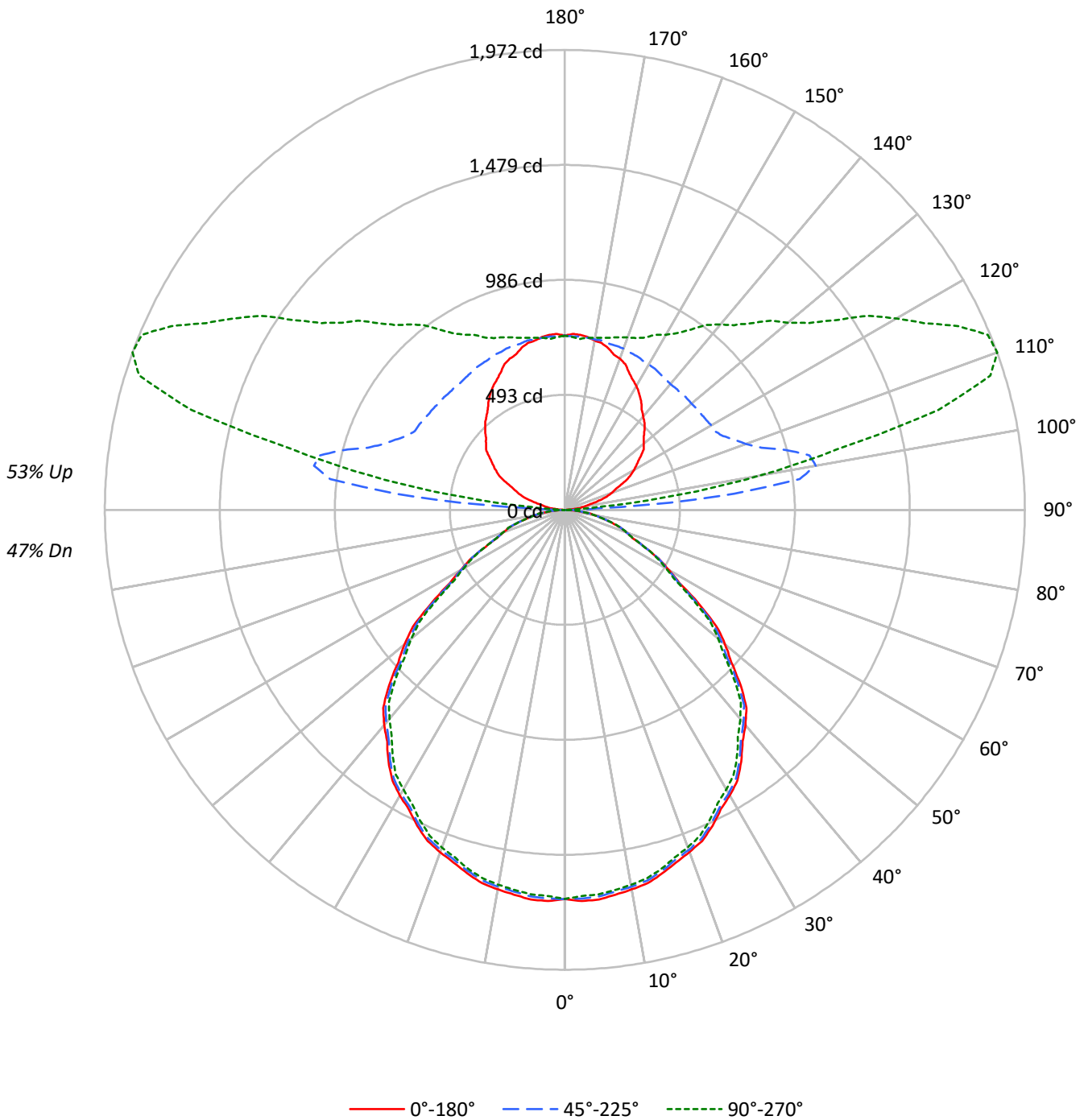
Lumens per Lamp: N/A
Luminaire Lumens: 8810.4 lumens
Efficiency: N/A
Efficacy: 118.1 lumens/watt
Spacing Criteria (0/90/45): 1.26 / 1.24 / 1.35
Luminous Opening: Rectangular (W 0.29' x L: 4' x H: 0')
CIE Type: General Diffuse

Input Watts (W): 74.6
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	107	107	107	107	98	98	98	98	82	82	82	67	67	67	54	54	54	47				47
1	97	93	89	86	89	86	83	80	72	70	68	60	58	56	48	47	46				40	
2	89	82	76	71	82	75	70	66	64	60	57	53	50	48	42	41	39				34	
3	81	72	65	59	75	67	60	55	56	52	48	47	43	41	38	36	34				29	
4	74	64	56	50	68	59	52	47	50	45	41	42	38	35	34	31	29				25	
5	68	57	49	43	63	53	46	41	45	40	35	38	34	30	31	28	25				22	
6	63	51	43	38	58	48	40	35	41	35	31	34	30	27	28	25	22				20	
7	58	46	38	33	54	43	36	31	37	31	27	31	27	24	25	22	20				17	
8	54	42	34	29	50	39	32	27	34	28	24	28	24	21	23	20	18				16	
9	50	38	31	26	46	36	29	25	31	25	22	26	22	19	22	18	16				14	
10	47	35	28	23	43	33	26	22	28	23	20	24	20	17	20	17	15				13	

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	15393	15393	15393
5°	15532	15412	15332
10°	15482	15375	15294
15°	15414	15319	15236
20°	15337	15238	15125
25°	15229	15126	14951
30°	15065	14958	14743
35°	14843	14713	14502
40°	14505	14348	14089
45°	13913	13669	13388
50°	12871	12562	12314
55°	11234	10980	10748
60°	9466	9387	9202
65°	8189	8219	8156
70°	7521	7559	7559
75°	7222	7222	7276
80°	6796	6870	6796
85°	5473	6087	6087



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	157.8	1.8
10°-20°	451.4	5.1
20°-30°	680.9	7.7
30°-40°	811.3	9.2
40°-50°	799.8	9.1
50°-60°	611.3	6.9
60°-70°	378.3	4.3
70°-80°	214.8	2.4
80°-90°	65.3	0.7
90°-100°	340.3	3.9
100°-110°	968.4	11.0
110°-120°	927.8	10.5
120°-130°	734.4	8.3
130°-140°	589.4	6.7
140°-150°	461.5	5.2
150°-160°	337.6	3.8
160°-170°	209.1	2.4
170°-180°	71.0	0.8
0°-30°	1290.0	14.6
0°-40°	2101.3	23.9
0°-60°	3512.4	39.9
0°-90°	4170.9	47.3
90°-120°	2236.6	25.4
90°-150°	4021.8	45.6
90°-180°	4640.0	52.7
0°-180°	8810.4	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1668	1668	1668	1668	1668	
5°	1677	1659	1664	1658	1656	159
15°	1614	1597	1604	1598	1595	455
25°	1496	1478	1486	1470	1469	688
35°	1318	1302	1306	1289	1288	822
45°	1066	1052	1048	1029	1026	817
55°	698	687	683	671	668	626
65°	375	372	376	374	374	380
75°	203	203	203	204	204	214
85°	52	54	58	58	58	60
90°	0	0	0	0	0	4
95°	37	147	659	228	141	42
105°	150	228	987	1743	1657	159
115°	280	338	748	1585	1862	275
125°	395	438	714	1185	1417	353
135°	483	523	706	1001	1132	373
145°	569	599	711	866	944	356
155°	650	666	728	783	815	301
165°	718	721	737	753	764	202
175°	753	748	746	741	736	71
180°	747	747	747	747	747	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1668.4	1668.4	1668.4	1668.4	1668.4
2.5°	1678.8	1664.2	1668.4	1664.8	1656.9
5°	1677.1	1658.8	1664.1	1658.3	1655.5
7.5°	1664.1	1646.1	1651.5	1645.7	1644.0
10°	1652.6	1635.8	1641.1	1635.3	1632.5
12.5°	1640.0	1622.0	1628.5	1621.5	1618.7
15°	1613.8	1597.0	1603.8	1597.9	1595.1
17.5°	1585.1	1567.1	1573.9	1567.2	1563.5
20°	1562.1	1545.2	1552.0	1541.9	1540.5
22.5°	1536.8	1519.9	1526.7	1513.2	1512.9
25°	1496.0	1477.7	1485.9	1470.1	1468.7
27.5°	1447.4	1430.5	1437.3	1421.2	1419.5
30°	1414.1	1397.2	1404.0	1386.7	1383.9
32.5°	1376.1	1360.4	1366.1	1348.8	1347.1
35°	1317.8	1302.3	1306.3	1289.0	1287.6
37.5°	1251.4	1237.3	1239.6	1220.6	1219.2
40°	1204.3	1190.2	1191.3	1171.2	1169.8
42.5°	1152.5	1138.5	1137.3	1117.1	1115.7
45°	1066.3	1052.2	1047.6	1028.9	1026.1
47.5°	968.0	954.0	945.3	930.0	928.1
50°	896.7	882.7	875.2	862.1	857.9
52.5°	819.7	805.6	799.3	787.4	783.2
55°	698.4	687.2	682.6	671.0	668.2
57.5°	583.2	575.6	574.2	563.0	561.9
60°	513.0	508.8	508.7	498.7	498.7
62.5°	453.2	450.2	452.4	445.8	444.6
65°	375.1	372.3	376.5	373.6	373.6
67.5°	313.3	313.3	315.9	314.7	314.7
70°	278.8	278.8	280.2	280.2	280.2
72.5°	247.7	246.6	250.3	250.3	249.2
75°	202.6	202.6	202.6	204.1	204.1
77.5°	157.8	158.1	159.2	158.9	157.8
80°	127.9	129.3	129.3	127.9	127.9
82.5°	98.0	99.4	99.4	99.1	98.0
85°	51.7	54.5	57.5	57.5	57.5
87.5°	14.9	19.4	23.0	23.0	21.8
90°	0.0	0.0	0.0	0.0	0.0
92.5°	11.4	60.2	139.7	40.7	30.7
95°	36.9	146.6	658.9	228.0	140.6
97.5°	67.9	171.7	1014.7	726.1	497.6
100°	89.5	186.6	1092.0	1106.1	852.0
102.5°	113.3	202.7	1074.9	1415.8	1193.9
105°	150.5	228.3	986.9	1743.2	1657.1
107.5°	188.3	258.0	884.1	1835.5	1912.1
110°	214.4	279.7	825.0	1800.2	1972.3

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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	239.4	301.3	785.2	1716.7	1962.1
115°	279.7	338.0	748.3	1585.3	1861.6
117.5°	315.2	369.9	726.5	1441.7	1734.4
120°	343.6	389.5	724.2	1359.6	1640.1
122.5°	366.4	412.2	718.5	1287.6	1548.1
125°	394.8	437.8	714.2	1185.3	1417.1
127.5°	425.7	466.0	712.0	1124.1	1315.2
130°	441.6	481.9	708.6	1081.5	1248.2
132.5°	458.7	497.8	708.6	1048.3	1201.6
135°	482.8	523.1	705.7	1001.2	1131.7
137.5°	505.5	544.7	705.4	961.3	1074.1
140°	522.6	562.8	704.3	928.3	1036.6
142.5°	541.9	575.5	707.7	901.9	999.1
145°	569.4	598.6	711.4	866.5	944.3
147.5°	593.0	621.3	717.7	830.8	898.0
150°	613.4	632.9	719.9	819.0	866.2
152.5°	629.3	649.9	722.2	803.0	846.9
155°	650.3	665.6	728.4	783.1	815.1
157.5°	676.5	685.6	729.9	774.1	796.9
160°	690.1	697.1	735.5	767.2	786.7
162.5°	698.1	706.1	736.7	761.4	776.4
165°	718.5	721.3	737.0	752.8	763.9
167.5°	732.4	729.9	743.5	750.7	755.1
170°	737.0	735.6	741.2	742.8	748.3
172.5°	747.2	742.5	744.6	740.5	744.9
175°	752.6	748.4	745.5	741.1	735.5
177.5°	754.9	748.2	744.6	740.1	741.2
180°	746.9	746.9	746.9	746.9	746.9

(END OF REPORT)