

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: P564306

Luminaire Tested: **SQ4-PR1-100U-125D-830-1D-UNV-STD-W-4**

Issue Date: 7/30/2021

Test Information

Test Method: LM-79-2019
Report Number: P564306
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1910-536-23, 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-125D-830-1D-UNV-STD-W-4
Description: CORELITE SQ4 SUSPENDED LED LUMINAIRE WITH PERCEIVE RIPPLE CONTINUOUS LENS.
DOWNLIGHT 1250 LUMENS PER FOOT
UPLIGHT 1000 LUMENS PER FOOT
Light Source: 3000K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

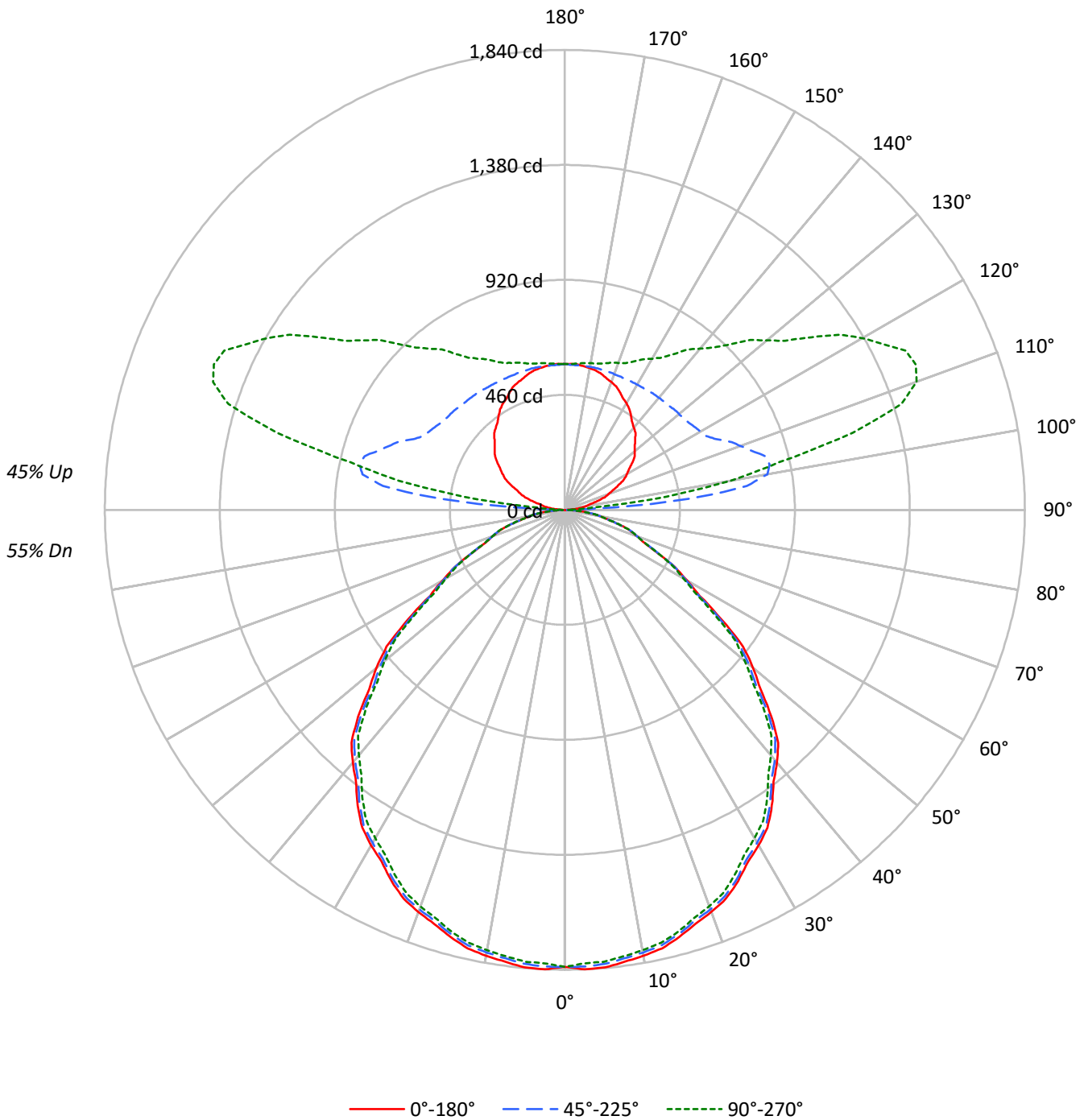
Lumens per Lamp: N/A
Luminaire Lumens: 8363.2 lumens
Efficiency: N/A
Efficacy: 121.7 lumens/watt
Spacing Criteria (0/90/45): 1.26 / 1.24 / 1.35
Luminous Opening: Rectangular (W 0.29' x L: 4' x H: 0')
CIE Type: General Diffuse

Input Watts (W): 68.7
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	108	108	108	108	100	100	100	100	86	86	86	73	73	73	60	60	60	55
1	99	95	91	88	92	88	85	82	76	73	71	64	63	61	54	53	52	47
2	91	83	77	72	84	78	72	68	67	63	60	57	54	52	48	46	44	40
3	83	73	66	60	77	69	62	57	59	54	50	51	47	44	43	40	38	34
4	76	65	57	51	70	61	54	49	53	47	43	45	41	38	38	35	33	29
5	70	58	50	44	65	54	47	42	47	42	37	41	36	33	35	31	29	26
6	64	52	44	38	60	49	42	37	43	37	33	37	32	29	31	28	25	23
7	60	47	39	34	55	44	37	32	39	33	29	34	29	26	29	25	23	20
8	55	43	35	30	51	40	33	29	35	30	26	31	26	23	26	23	20	18
9	51	39	32	27	48	37	30	26	33	27	23	28	24	21	24	21	18	16
10	48	36	29	24	45	34	27	23	30	25	21	26	22	19	23	19	17	15

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	16870	16870	16870
5°	17023	16891	16803
10°	16968	16850	16761
15°	16894	16788	16698
20°	16809	16701	16577
25°	16690	16578	16386
30°	16511	16393	16158
35°	16266	16124	15895
40°	15896	15725	15440
45°	15248	14980	14672
50°	14107	13766	13495
55°	12312	12033	11781
60°	10376	10287	10084
65°	8975	9007	8940
70°	8241	8284	8284
75°	7917	7917	7971
80°	7449	7529	7449
85°	6002	6669	6669



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	172.9	2.1
10°-20°	494.7	5.9
20°-30°	746.2	8.9
30°-40°	889.1	10.6
40°-50°	876.6	10.5
50°-60°	669.9	8.0
60°-70°	414.6	5.0
70°-80°	235.5	2.8
80°-90°	72.8	0.9
90°-100°	273.2	3.3
100°-110°	754.3	9.0
110°-120°	777.9	9.3
120°-130°	625.1	7.5
130°-140°	491.3	5.9
140°-150°	376.8	4.5
150°-160°	270.8	3.2
160°-170°	165.6	2.0
170°-180°	55.8	0.7
0°-30°	1413.8	16.9
0°-40°	2302.9	27.5
0°-60°	3849.4	46.0
0°-90°	4572.3	54.7
90°-120°	1805.5	21.6
90°-150°	3298.7	39.4
90°-180°	3791.0	45.3
0°-180°	8363.2	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1828	1828	1828	1828	1828	
5°	1838	1818	1824	1817	1814	174
15°	1769	1750	1758	1751	1748	499
25°	1640	1620	1628	1611	1610	755
35°	1444	1427	1432	1413	1411	901
45°	1169	1153	1148	1128	1124	895
55°	765	753	748	735	732	686
65°	411	408	413	410	410	416
75°	222	222	222	224	224	235
85°	57	60	63	63	63	66
90°	2	4	8	8	9	5
95°	40	148	496	204	133	43
105°	134	207	830	1267	1193	143
115°	241	291	668	1323	1505	237
125°	330	376	606	1025	1203	294
135°	398	441	589	830	936	308
145°	461	493	582	707	761	289
155°	520	537	577	634	654	240
165°	563	570	580	602	607	159
175°	584	584	581	589	587	55
180°	584	584	584	584	584	

TEST NUMBER: P564306

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1828.5	1828.5	1828.5	1828.5	1828.5
2.5°	1839.9	1823.8	1828.5	1824.5	1815.9
5°	1838.0	1818.0	1823.8	1817.4	1814.3
7.5°	1823.8	1804.1	1809.9	1803.6	1801.7
10°	1811.2	1792.7	1798.6	1792.2	1789.1
12.5°	1797.3	1777.6	1784.7	1777.1	1774.0
15°	1768.7	1750.2	1757.6	1751.3	1748.2
17.5°	1737.2	1717.5	1724.9	1717.6	1713.6
20°	1712.0	1693.5	1701.0	1689.9	1688.4
22.5°	1684.3	1665.8	1673.2	1658.4	1658.1
25°	1639.5	1619.5	1628.5	1611.1	1609.6
27.5°	1586.3	1567.8	1575.3	1557.6	1555.7
30°	1549.8	1531.3	1538.7	1519.8	1516.7
32.5°	1508.2	1490.9	1497.2	1478.2	1476.4
35°	1444.2	1427.3	1431.6	1412.7	1411.2
37.5°	1371.5	1356.1	1358.6	1337.7	1336.2
40°	1319.8	1304.4	1305.6	1283.6	1282.0
42.5°	1263.1	1247.7	1246.4	1224.3	1222.8
45°	1168.6	1153.2	1148.1	1127.6	1124.5
47.5°	1060.9	1045.5	1036.0	1019.3	1017.1
50°	982.8	967.4	959.1	944.9	940.2
52.5°	898.4	883.0	876.0	863.0	858.4
55°	765.4	753.1	748.1	735.4	732.4
57.5°	639.1	630.8	629.4	617.0	615.8
60°	562.3	557.6	557.5	546.5	546.5
62.5°	496.7	493.4	495.8	488.5	487.3
65°	411.1	408.0	412.6	409.5	409.5
67.5°	343.3	343.3	346.2	344.9	344.9
70°	305.5	305.5	307.1	307.1	307.1
72.5°	271.5	270.3	274.4	274.3	273.1
75°	222.1	222.1	222.1	223.6	223.6
77.5°	172.9	173.2	174.5	174.2	172.9
80°	140.2	141.7	141.7	140.2	140.2
82.5°	107.4	109.0	109.0	108.6	107.4
85°	56.7	59.8	63.0	63.0	63.0
87.5°	16.8	22.0	26.7	26.9	25.8
90°	1.9	3.7	7.5	8.4	9.3
92.5°	16.8	69.7	124.7	45.5	35.5
95°	40.1	147.8	495.7	203.8	132.6
97.5°	66.5	165.6	734.3	565.3	409.4
100°	85.9	176.2	822.4	828.2	673.1
102.5°	104.6	188.3	839.6	1023.3	876.2
105°	134.4	207.4	829.9	1267.0	1193.0
107.5°	166.2	231.2	783.6	1384.5	1411.5
110°	188.6	247.0	747.8	1409.7	1497.4

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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	208.7	265.0	714.1	1389.8	1519.0
115°	240.8	291.1	668.4	1323.2	1504.8
117.5°	268.9	318.9	638.3	1229.5	1436.1
120°	287.5	336.8	626.4	1166.0	1374.1
122.5°	305.4	352.5	616.7	1106.8	1303.9
125°	330.5	376.1	605.9	1025.3	1203.3
127.5°	351.8	397.4	599.5	956.4	1110.0
130°	365.9	411.6	596.5	914.3	1053.9
132.5°	379.4	422.8	593.5	878.9	1005.4
135°	397.7	440.6	589.1	830.4	936.3
137.5°	418.2	457.3	586.8	789.8	880.1
140°	429.4	467.8	585.3	762.6	842.0
142.5°	442.1	477.5	583.8	738.5	808.4
145°	461.2	493.1	581.6	707.0	760.8
147.5°	479.5	507.4	579.5	680.4	722.2
150°	492.9	515.7	578.8	664.5	698.3
152.5°	503.4	524.7	578.0	650.9	678.9
155°	520.0	537.3	576.9	634.3	654.4
157.5°	535.3	548.6	577.1	622.2	635.9
160°	544.2	556.1	577.9	615.4	625.5
162.5°	551.7	562.1	578.6	609.4	617.2
165°	562.9	570.2	579.7	602.2	606.8
167.5°	571.5	575.9	580.7	597.9	599.3
170°	576.0	579.6	580.7	595.6	595.6
172.5°	579.7	581.9	580.7	592.6	591.9
175°	583.5	584.4	580.7	589.0	587.2
177.5°	584.9	584.2	580.5	585.7	584.2
180°	583.5	583.5	583.5	583.5	583.5

(END OF REPORT)