

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: P564080

Luminaire Tested: **SQ4-PR1-075U-075D-930-1D-UNV-STD-W-8**

Issue Date: 7/30/2021

Test Information

Test Method: LM-79-2019
Report Number: P564080
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1910-536-22, 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-PR1-075U-075D-930-1D-UNV-STD-W-8
Description: CORELITE SQ4 SUSPENDED LED LUMINAIRE WITH PERCEIVE RIPPLE CONTINUOUS LENS.
DOWNLIGHT 750 LUMENS PER FOOT
UPLIGHT 750 LUMENS PER FOOT
Light Source: 3000K CCT, 90 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

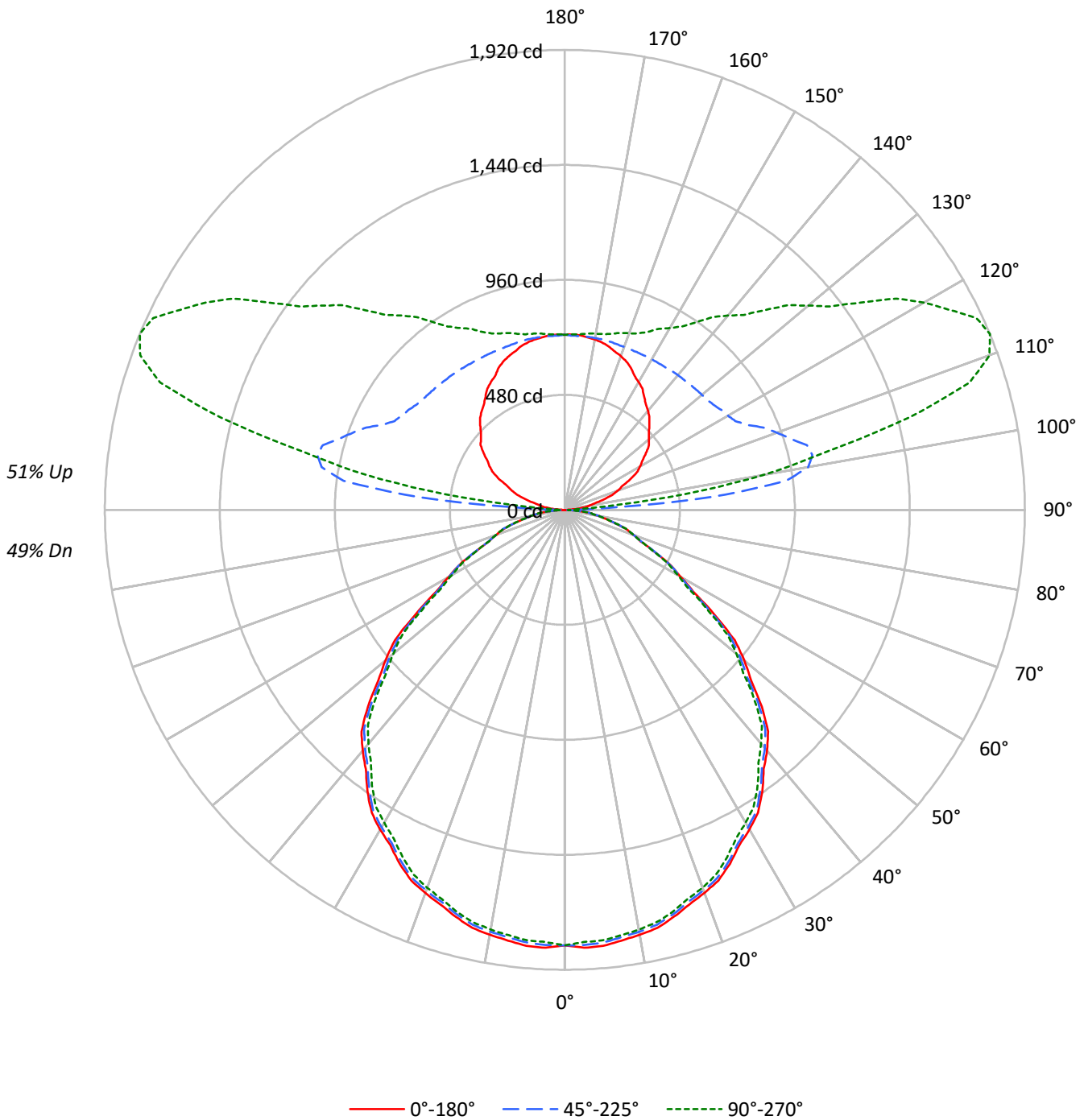
Lumens per Lamp: N/A
Luminaire Lumens: 9312.0 lumens
Efficiency: N/A
Efficacy: 102.3 lumens/watt
Spacing Criteria (0/90/45): 1.26 / 1.24 / 1.35
Luminous Opening: Rectangular (W 0.29' x L: 8' x H: 0')
CIE Type: General Diffuse

Input Watts (W): 91
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				
RC	80					70					50					30				
RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10	0		
RCR																				
0	107	107	107	107	98	98	98	98	83	83	83	68	68	68	55	55	55	49		
1	98	94	90	86	90	86	83	80	73	71	68	60	59	57	49	48	47	42		
2	89	82	76	71	82	76	71	66	64	60	57	53	51	48	44	42	40	35		
3	82	72	65	59	75	67	61	56	57	52	48	47	44	41	39	36	34	30		
4	75	64	56	50	69	59	53	47	51	45	41	42	39	36	35	32	30	26		
5	69	57	49	43	63	53	46	41	45	40	36	38	34	31	31	28	26	23		
6	63	51	43	38	58	48	41	36	41	35	31	35	30	27	29	25	23	20		
7	59	46	39	33	54	43	36	31	37	32	28	31	27	24	26	23	21	18		
8	54	42	35	29	50	39	32	28	34	28	25	29	25	21	24	21	18	16		
9	51	39	31	26	47	36	29	25	31	26	22	26	22	19	22	19	17	14		
10	47	35	28	23	44	33	27	22	29	23	20	24	20	17	21	17	15	13		

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	8388	8388	8388
5°	8464	8398	8355
10°	8437	8378	8334
15°	8400	8347	8302
20°	8357	8303	8242
25°	8299	8243	8147
30°	8209	8150	8034
35°	8088	8017	7903
40°	7903	7818	7677
45°	7581	7448	7295
50°	7014	6845	6710
55°	6121	5983	5857
60°	5158	5115	5014
65°	4462	4479	4445
70°	4098	4119	4119
75°	3935	3935	3964
80°	3703	3746	3703
85°	2985	3313	3313



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	171.9	1.8
10°-20°	492.0	5.3
20°-30°	742.0	8.0
30°-40°	884.1	9.5
40°-50°	871.7	9.4
50°-60°	666.2	7.2
60°-70°	412.3	4.4
70°-80°	234.2	2.5
80°-90°	73.1	0.8
90°-100°	344.9	3.7
100°-110°	949.1	10.2
110°-120°	979.6	10.5
120°-130°	784.8	8.4
130°-140°	616.4	6.6
140°-150°	472.4	5.1
150°-160°	339.7	3.6
160°-170°	207.7	2.2
170°-180°	70.0	0.8
0°-30°	1405.9	15.1
0°-40°	2290.1	24.6
0°-60°	3827.9	41.1
0°-90°	4547.4	48.8
90°-120°	2273.6	24.4
90°-150°	4147.3	44.5
90°-180°	4765.0	51.2
0°-180°	9312.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1818	1818	1818	1818	1818	
5°	1828	1808	1814	1807	1804	173
15°	1759	1740	1748	1742	1738	496
25°	1630	1610	1619	1602	1601	750
35°	1436	1419	1424	1405	1403	896
45°	1162	1147	1142	1121	1118	890
55°	761	749	744	731	728	682
65°	409	406	410	407	407	414
75°	221	221	221	222	222	233
85°	56	59	63	63	63	66
90°	2	6	11	14	14	6
95°	51	188	610	261	166	54
105°	170	261	1046	1593	1486	179
115°	300	366	839	1670	1895	296
125°	414	472	761	1287	1508	369
135°	500	554	739	1041	1178	385
145°	577	617	728	887	956	362
155°	654	675	724	797	820	300
165°	706	716	727	756	761	199
175°	731	733	728	738	736	69
180°	731	731	731	731	731	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1818.3	1818.3	1818.3	1818.3	1818.3
2.5°	1829.6	1813.6	1818.3	1814.3	1805.8
5°	1827.7	1807.8	1813.6	1807.3	1804.2
7.5°	1813.6	1794.0	1799.8	1793.5	1791.7
10°	1801.1	1782.7	1788.5	1782.2	1779.1
12.5°	1787.3	1767.7	1774.8	1767.2	1764.1
15°	1758.8	1740.4	1747.8	1741.5	1738.4
17.5°	1727.5	1707.9	1715.2	1707.9	1704.0
20°	1702.4	1684.0	1691.4	1680.4	1678.9
22.5°	1674.8	1656.5	1663.9	1649.1	1648.8
25°	1630.4	1610.4	1619.4	1602.1	1600.6
27.5°	1577.4	1559.0	1566.5	1548.9	1547.0
30°	1541.1	1522.7	1530.1	1511.3	1508.2
32.5°	1499.7	1482.6	1488.8	1469.9	1468.1
35°	1436.2	1419.3	1423.6	1404.8	1403.3
37.5°	1363.8	1348.5	1351.0	1330.2	1328.7
40°	1312.4	1297.1	1298.3	1276.4	1274.8
42.5°	1256.0	1240.7	1239.4	1217.5	1216.0
45°	1162.1	1146.8	1141.7	1121.3	1118.2
47.5°	1055.0	1039.6	1030.2	1013.6	1011.4
50°	977.3	962.0	953.8	939.6	935.0
52.5°	893.3	878.0	871.1	858.1	853.5
55°	761.1	748.9	743.9	731.3	728.3
57.5°	635.5	627.3	625.8	613.6	612.4
60°	559.1	554.5	554.4	543.5	543.5
62.5°	494.0	490.6	493.0	485.8	484.6
65°	408.8	405.7	410.3	407.2	407.2
67.5°	341.4	341.4	344.2	343.0	343.0
70°	303.8	303.8	305.4	305.4	305.4
72.5°	270.0	268.8	272.8	272.8	271.6
75°	220.8	220.8	220.8	222.4	222.4
77.5°	172.0	172.3	173.5	173.2	172.0
80°	139.4	140.9	141.0	139.4	139.4
82.5°	106.8	108.3	108.4	108.0	106.8
85°	56.4	59.4	62.6	62.6	62.6
87.5°	16.6	22.4	27.2	27.8	26.6
90°	1.6	6.1	10.9	14.0	14.0
92.5°	21.5	91.8	159.0	61.1	50.1
95°	51.4	188.3	610.0	260.8	166.5
97.5°	83.7	208.8	930.9	717.2	506.1
100°	107.4	221.5	1031.7	1041.4	849.6
102.5°	129.8	236.6	1057.9	1291.9	1116.1
105°	169.6	260.9	1045.7	1592.6	1486.1
107.5°	207.6	291.0	986.3	1739.8	1771.5
110°	235.0	311.1	941.5	1776.5	1886.0



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	259.9	333.5	896.6	1752.9	1919.6
115°	300.3	365.8	838.8	1670.2	1895.4
117.5°	338.9	399.2	802.0	1554.1	1808.8
120°	362.6	420.4	785.8	1467.2	1730.4
122.5°	383.7	441.6	774.6	1390.9	1640.8
125°	413.9	471.7	760.9	1287.3	1507.9
127.5°	442.6	497.6	751.9	1200.7	1394.3
130°	457.5	513.8	746.9	1149.3	1325.8
132.5°	474.9	531.2	743.2	1104.1	1263.6
135°	499.5	554.3	739.2	1041.0	1178.0
137.5°	522.5	573.4	735.7	990.1	1103.0
140°	540.0	587.1	734.5	956.2	1058.2
142.5°	554.9	598.4	732.0	926.0	1013.3
145°	577.3	616.9	728.3	887.0	955.5
147.5°	601.3	635.4	726.4	852.4	907.2
150°	616.2	646.7	725.2	833.5	876.1
152.5°	629.9	657.9	723.9	817.1	852.4
155°	653.6	674.9	723.6	797.3	820.1
157.5°	670.7	688.0	723.6	780.9	796.7
160°	683.1	696.8	723.6	772.1	784.3
162.5°	693.1	704.4	724.8	764.6	774.3
165°	706.5	715.6	726.7	756.4	760.9
167.5°	715.8	722.8	728.3	749.5	750.7
170°	722.0	726.6	728.3	746.9	746.9
172.5°	727.0	729.2	728.3	743.2	742.0
175°	731.4	732.9	728.3	737.6	736.0
177.5°	732.6	732.6	727.6	735.1	732.6
180°	731.4	731.4	731.4	731.4	731.4

(END OF REPORT)