

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: P564103

Luminaire Tested: **SQ4-PR1-075U-100D-930-1D-UNV-STD-W-6**

Issue Date: 7/30/2021

Test Information

Test Method: LM-79-2019
Report Number: P564103
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-100D-930-1D-UNV-STD-W-6
Description: CORELITE SQ4 SUSPENDED LED LUMINAIRE WITH PERCEIVE RIPPLE CONTINUOUS LENS.
DOWNLIGHT 1000 LUMENS PER FOOT
UPLIGHT 750 LUMENS PER FOOT
Light Source: 3000K CCT, 90 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

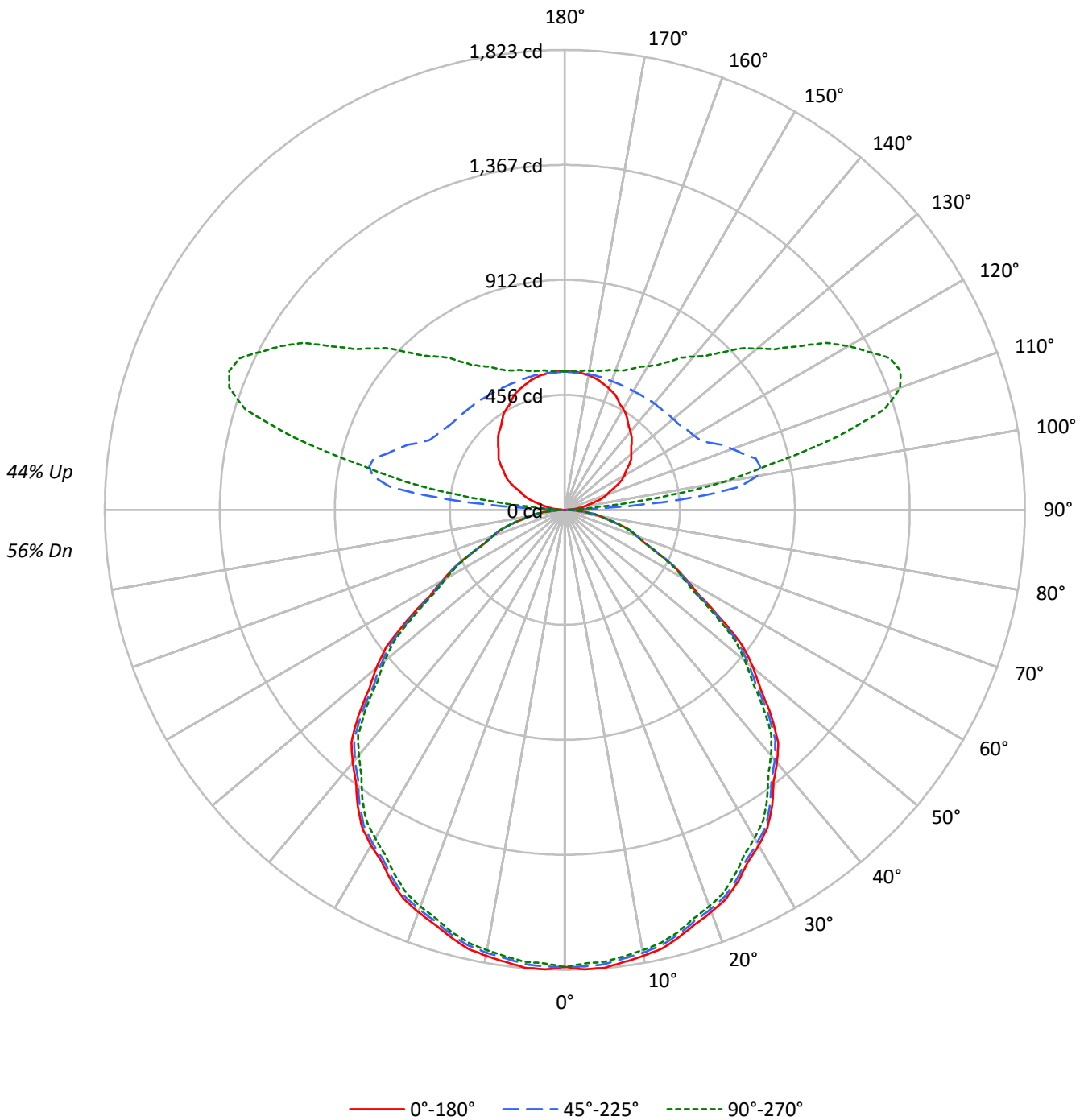
Lumens per Lamp: N/A
Luminaire Lumens: 8104.6 lumens
Efficiency: N/A
Efficacy: 97.8 lumens/watt
Spacing Criteria (0/90/45): 1.26 / 1.24 / 1.35
Luminous Opening: Rectangular (W 0.29' x L: 6' x H: 0')
CIE Type: General Diffuse

Input Watts (W): 82.9
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	0
RCR																		
0	109	109	109	109	101	101	101	101	87	87	87	74	74	74	62	62	62	56
1	99	95	91	88	92	89	85	82	76	74	72	65	64	62	55	54	53	48
2	91	84	77	72	84	78	73	68	67	63	60	58	55	52	49	47	45	41
3	83	74	66	61	77	69	62	57	60	55	51	51	48	45	43	41	38	35
4	76	65	58	52	71	61	54	49	53	48	44	46	42	38	39	36	33	30
5	70	58	50	44	65	55	48	42	48	42	38	41	37	33	35	32	29	26
6	65	53	44	39	60	49	42	37	43	37	33	37	33	29	32	29	26	23
7	60	47	40	34	55	45	37	32	39	33	29	34	30	26	29	26	23	21
8	55	43	35	30	52	41	34	29	36	30	26	31	27	23	27	23	21	18
9	52	39	32	27	48	37	30	26	33	27	23	29	24	21	25	21	19	17
10	48	36	29	24	45	34	28	23	30	25	21	27	22	19	23	20	17	15

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	11145	11145	11145
5°	11245	11159	11101
10°	11210	11132	11074
15°	11161	11091	11032
20°	11105	11033	10951
25°	11026	10952	10825
30°	10907	10830	10675
35°	10747	10653	10500
40°	10502	10388	10200
45°	10073	9897	9693
50°	9319	9095	8915
55°	8134	7949	7782
60°	6854	6797	6663
65°	5928	5951	5906
70°	5445	5472	5472
75°	5231	5231	5266
80°	4920	4977	4920
85°	3966	4404	4404



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	171.4	2.1
10°-20°	490.2	6.0
20°-30°	739.5	9.1
30°-40°	881.1	10.9
40°-50°	868.6	10.7
50°-60°	663.9	8.2
60°-70°	410.8	5.1
70°-80°	233.3	2.9
80°-90°	72.4	0.9
90°-100°	258.7	3.2
100°-110°	711.8	8.8
110°-120°	734.7	9.1
120°-130°	588.6	7.3
130°-140°	462.3	5.7
140°-150°	354.3	4.4
150°-160°	254.7	3.1
160°-170°	155.8	1.9
170°-180°	52.5	0.6
0°-30°	1401.1	17.3
0°-40°	2282.1	28.2
0°-60°	3814.6	47.1
0°-90°	4531.1	55.9
90°-120°	1705.2	21.0
90°-150°	3110.5	38.4
90°-180°	3573.0	44.1
0°-180°	8104.6	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1812	1812	1812	1812	1812	
5°	1821	1802	1807	1801	1798	173
15°	1753	1734	1742	1735	1732	495
25°	1625	1605	1614	1597	1595	748
35°	1431	1414	1419	1400	1398	893
45°	1158	1143	1138	1117	1114	887
55°	758	746	741	729	726	680
65°	407	404	409	406	406	413
75°	220	220	220	222	222	232
85°	56	59	62	62	62	65
90°	1	5	8	10	10	5
95°	38	141	458	196	125	41
105°	127	196	784	1194	1115	134
115°	225	274	629	1253	1422	222
125°	310	354	571	965	1131	277
135°	375	416	554	781	884	289
145°	433	463	546	665	717	272
155°	490	506	543	598	615	225
165°	530	537	545	567	571	149
175°	548	550	546	553	552	52
180°	548	548	548	548	548	

TEST NUMBER: P564103

CATALOG NUMBER: SQ4-PR1-075U-100D-930-1D-UNV-STD-W-6

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1812.0	1812.0	1812.0	1812.0	1812.0
2.5°	1823.2	1807.3	1812.0	1808.0	1799.5
5°	1821.3	1801.5	1807.3	1801.0	1797.9
7.5°	1807.3	1787.8	1793.6	1787.3	1785.4
10°	1794.8	1776.5	1782.3	1776.0	1773.0
12.5°	1781.1	1761.5	1768.6	1761.0	1758.0
15°	1752.7	1734.4	1741.7	1735.4	1732.4
17.5°	1721.5	1701.9	1709.3	1702.0	1698.0
20°	1696.5	1678.2	1685.6	1674.6	1673.1
22.5°	1669.0	1650.7	1658.1	1643.4	1643.1
25°	1624.7	1604.9	1613.8	1596.6	1595.0
27.5°	1571.9	1553.6	1561.0	1543.5	1541.7
30°	1535.7	1517.4	1524.8	1506.0	1503.0
32.5°	1494.5	1477.4	1483.6	1464.8	1463.0
35°	1431.2	1414.4	1418.7	1399.9	1398.4
37.5°	1359.1	1343.8	1346.3	1325.6	1324.1
40°	1307.9	1292.6	1293.8	1271.9	1270.4
42.5°	1251.7	1236.4	1235.1	1213.3	1211.7
45°	1158.0	1142.8	1137.8	1117.4	1114.3
47.5°	1051.3	1036.0	1026.6	1010.0	1007.9
50°	973.9	958.6	950.5	936.3	931.7
52.5°	890.2	875.0	868.1	855.2	850.6
55°	758.5	746.3	741.3	728.8	725.7
57.5°	633.3	625.1	623.7	611.5	610.2
60°	557.2	552.6	552.5	541.6	541.6
62.5°	492.2	488.9	491.3	484.1	482.9
65°	407.3	404.3	408.9	405.8	405.8
67.5°	340.2	340.2	343.0	341.8	341.8
70°	302.8	302.8	304.3	304.3	304.3
72.5°	269.1	267.8	271.9	271.8	270.6
75°	220.1	220.1	220.1	221.6	221.6
77.5°	171.4	171.7	172.9	172.6	171.4
80°	138.9	140.4	140.5	138.9	138.9
82.5°	106.4	108.0	108.0	107.7	106.4
85°	56.2	59.2	62.4	62.4	62.4
87.5°	16.5	22.0	26.6	27.0	25.8
90°	1.2	4.6	8.2	10.5	10.5
92.5°	16.1	68.8	119.3	45.8	37.6
95°	38.5	141.2	457.5	195.6	124.9
97.5°	62.8	156.6	698.2	537.9	379.5
100°	80.5	166.1	773.8	781.0	637.2
102.5°	97.3	177.4	793.4	969.0	837.0
105°	127.2	195.7	784.3	1194.5	1114.6
107.5°	155.7	218.2	739.7	1304.9	1328.6
110°	176.2	233.3	706.1	1332.4	1414.5

TEST NUMBER: P564103

CATALOG NUMBER: SQ4-PR1-075U-100D-930-1D-UNV-STD-W-6

CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	194.9	250.1	672.5	1314.7	1439.7
115°	225.2	274.3	629.1	1252.6	1421.5
117.5°	254.2	299.4	601.5	1165.6	1356.6
120°	271.9	315.3	589.4	1100.4	1297.8
122.5°	287.8	331.2	581.0	1043.2	1230.6
125°	310.4	353.8	570.7	965.4	1130.9
127.5°	331.9	373.2	563.9	900.6	1045.7
130°	343.1	385.3	560.2	862.0	994.4
132.5°	356.2	398.4	557.4	828.1	947.7
135°	374.6	415.7	554.4	780.8	883.5
137.5°	391.9	430.0	551.8	742.6	827.2
140°	405.0	440.4	550.9	717.2	793.6
142.5°	416.2	448.8	549.0	694.5	760.0
145°	433.0	462.7	546.2	665.2	716.6
147.5°	451.0	476.5	544.8	639.3	680.4
150°	462.2	485.0	543.9	625.1	657.1
152.5°	472.4	493.4	542.9	612.9	639.3
155°	490.2	506.2	542.7	597.9	615.1
157.5°	503.0	516.0	542.7	585.7	597.6
160°	512.4	522.6	542.7	579.1	588.2
162.5°	519.8	528.3	543.6	573.4	580.7
165°	529.9	536.7	545.0	567.3	570.7
167.5°	536.9	542.1	546.2	562.1	563.0
170°	541.5	545.0	546.2	560.2	560.2
172.5°	545.3	546.9	546.2	557.4	556.5
175°	548.5	549.7	546.2	553.2	552.0
177.5°	549.5	549.5	545.7	551.3	549.5
180°	548.5	548.5	548.5	548.5	548.5

(END OF REPORT)