

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: P564176

Luminaire Tested: **SQ4-PR1-0U-075D-930-1D-UNV-STD-W-8**

Issue Date: 7/30/2021

Test Information

Test Method: LM-79-2019
Report Number: P564176
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (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-PR1-0U-075D-930-1D-UNV-STD-W-8
Description: CORELITE SQ4 SUSPENDED LED LUMINAIRE WITH PERCEIVE RIPPLE CONTINUOUS LENS.
DOWNLIGHT 750 LUMENS PER FOOT
DIRECT ONLY
Light Source: 3000K CCT, 90 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

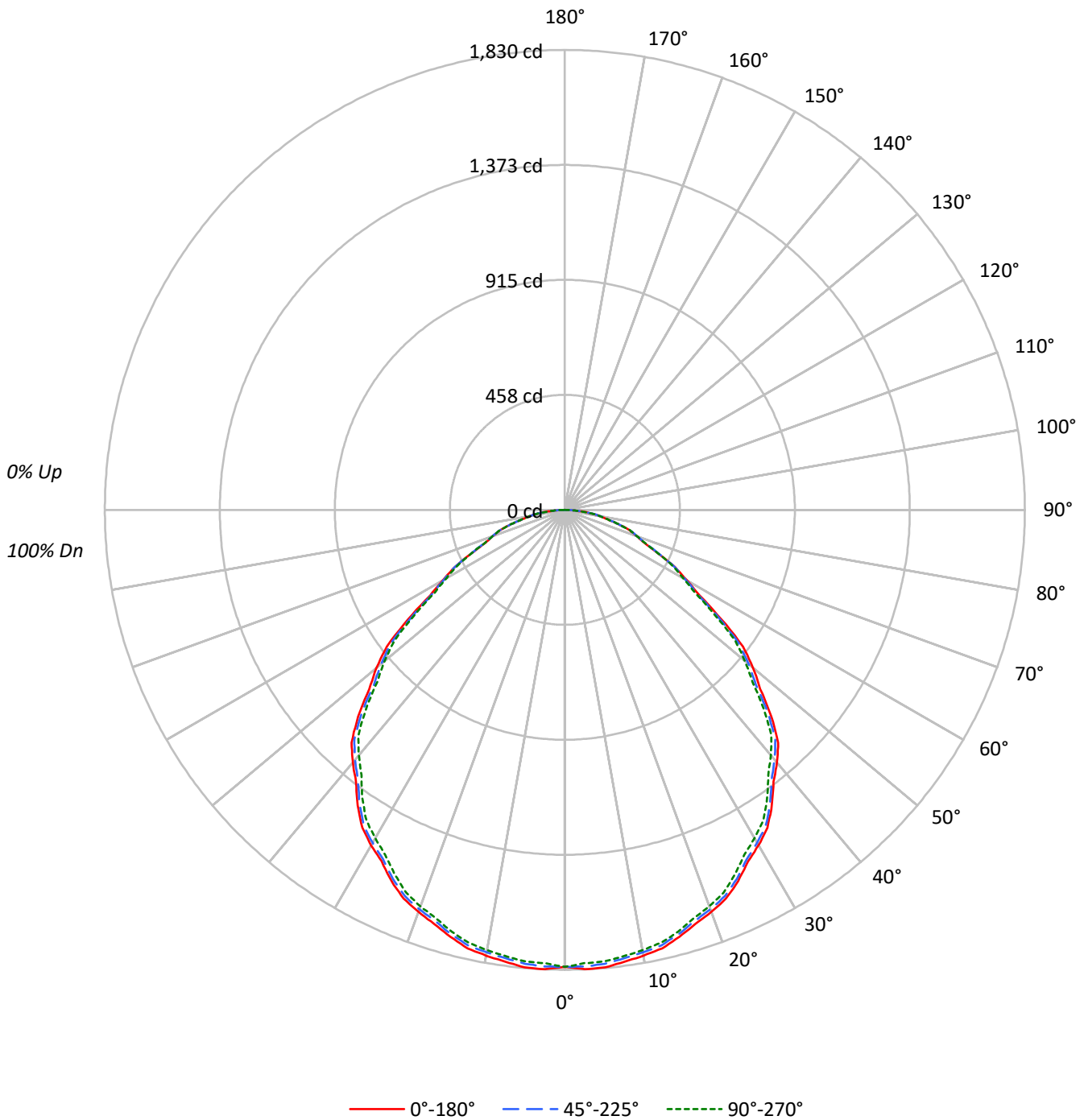
Lumens per Lamp: N/A
Luminaire Lumens: 4545.5 lumens
Efficiency: N/A
Efficacy: 83.6 lumens/watt
Spacing Criteria (0/90/45): 1.26 / 1.24 / 1.35
Luminous Opening: Rectangular (W 0.29' x L: 8' x H: 0')
CIE Type: Direct

Input Watts (W): 54.4
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	110	105	101	98	107	103	99	96	99	96	93	95	92	90	91	89	87	85				
2	100	93	86	81	98	91	85	80	87	82	78	84	80	76	81	78	75	72				
3	92	82	74	68	90	80	73	68	78	71	66	75	70	65	72	68	64	62				
4	85	73	65	58	82	72	64	58	69	63	57	67	61	56	65	60	56	54				
5	78	66	57	51	76	65	57	50	63	55	50	61	54	49	59	53	49	47				
6	72	59	51	45	70	58	50	44	57	49	44	55	49	44	53	48	43	41				
7	67	54	46	40	65	53	45	39	52	44	39	50	44	39	49	43	39	37				
8	63	49	41	35	61	49	41	35	47	40	35	46	40	35	45	39	35	33				
9	58	45	37	32	57	45	37	32	44	37	32	43	36	32	42	36	31	30				
10	55	42	34	29	54	41	34	29	40	34	29	40	33	29	39	33	29	27				

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	3.8
10°-20°	492.0	10.8
20°-30°	742.0	16.3
30°-40°	884.1	19.5
40°-50°	871.7	19.2
50°-60°	666.2	14.7
60°-70°	412.3	9.1
70°-80°	234.2	5.2
80°-90°	71.2	1.6
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°	1405.9	30.9
0°-40°	2290.1	50.4
0°-60°	3827.9	84.2
0°-90°	4545.5	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4545.5	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	68
90°	0	0	0	0	0	



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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°	16.3	21.2	25.1	25.0	23.8
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)