

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: P564875

Luminaire Tested: **SQ4-PW1-0U-100D-935-1D-UNV-STD-W-6**

Issue Date: 7/30/2021

Test Information

Test Method: LM-79-2019
Report Number: P564875
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2106-289-3)
Test Lab: INNOVATION CENTER
Issue Date: 7/30/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: CORELITE
Catalog Number: SQ4-PW1-0U-100D-935-1D-UNV-STD-W-6
Description: CORELITE SQ4 SUSPENDED LED LUMINAIRE WITH PERCEIVE WAVES CONTINUOUS LENS.
DOWNLIGHT 1000 LUMENS PER FOOT
DIRECT ONLY
Light Source: 3500K CCT, 90 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

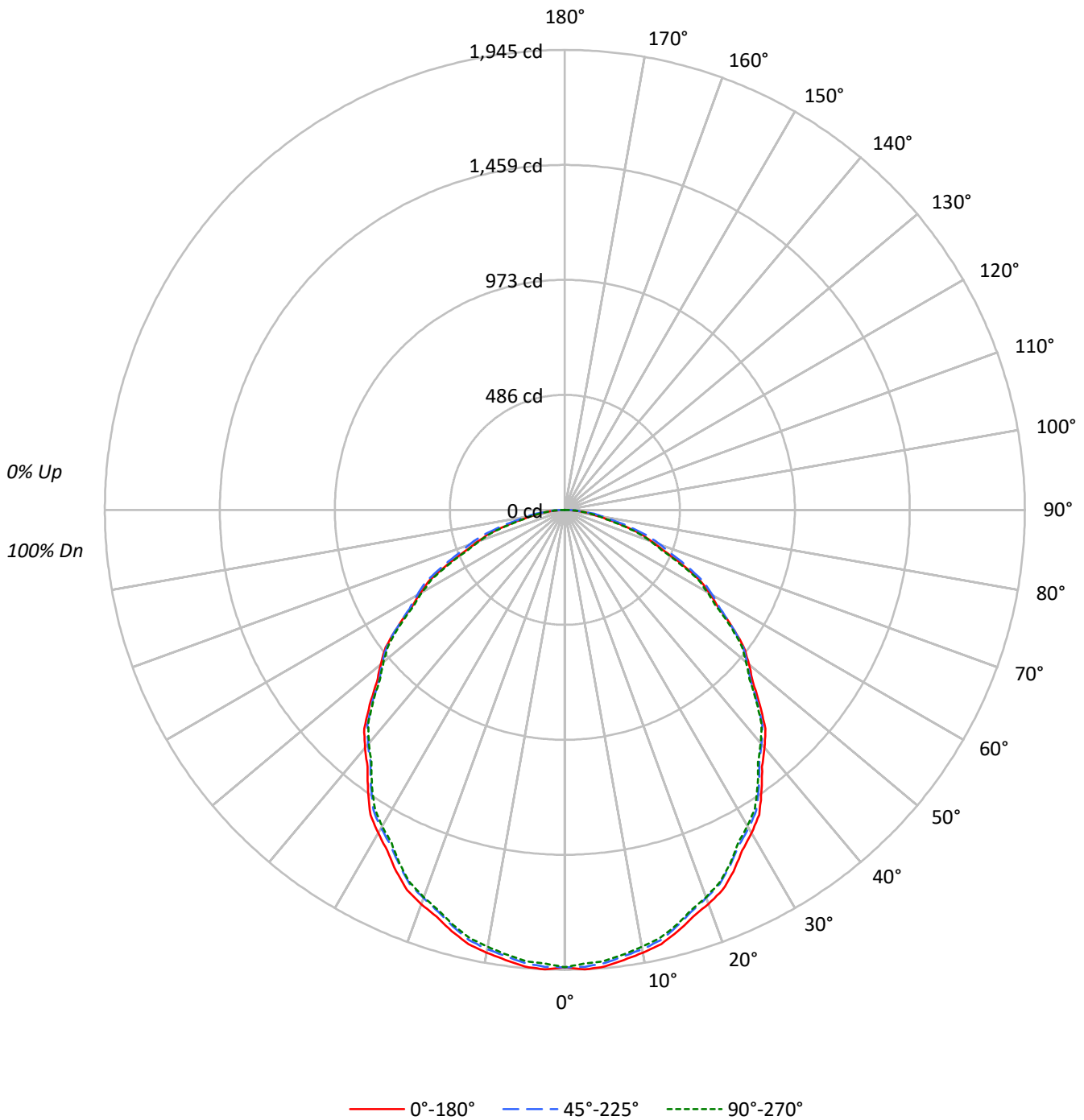
Lumens per Lamp: N/A
Luminaire Lumens: 4921.1 lumens
Efficiency: N/A
Efficacy: 89.0 lumens/watt
Spacing Criteria (0/90/45): 1.22 / 1.19 / 1.31
Luminous Opening: Rectangular (W 0.29' x L: 6' x H: 0')
CIE Type: Direct

Input Watts (W): 55.3
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	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100
1	109	105	101	97	107	102	99	95	98	95	92	94	92	89	91	89	87	85
2	100	92	85	80	97	90	84	79	86	81	77	83	79	75	80	76	73	71
3	91	81	73	67	89	79	72	66	76	70	65	74	68	64	71	66	63	60
4	84	72	63	57	81	71	63	56	68	61	56	66	60	55	64	58	54	52
5	77	64	56	49	75	63	55	49	61	54	48	59	53	48	57	52	47	45
6	71	58	49	43	69	57	49	43	55	48	42	54	47	42	52	46	42	40
7	66	53	44	38	64	52	44	38	50	43	38	49	42	37	48	42	37	35
8	62	48	40	34	60	48	40	34	46	39	34	45	38	34	44	38	33	31
9	58	44	36	31	56	44	36	31	43	35	31	42	35	30	41	35	30	28
10	54	41	33	28	53	40	33	28	39	33	28	39	32	28	38	32	28	26

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	11897	11897	11897
5°	11974	11879	11827
10°	11878	11782	11719
15°	11752	11622	11579
20°	11612	11434	11411
25°	11450	11241	11207
30°	11207	11038	10966
35°	10889	10736	10672
40°	10550	10386	10344
45°	10139	10006	9962
50°	9719	9638	9572
55°	9265	9265	9119
60°	8700	8868	8553
65°	7961	8358	7763
70°	7019	7692	6834
75°	5994	6885	5832
80°	4647	5795	4707
85°	3006	4453	3966



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	182.1	3.7
10°-20°	514.2	10.4
20°-30°	762.8	15.5
30°-40°	892.5	18.1
40°-50°	888.5	18.1
50°-60°	767.3	15.6
60°-70°	552.3	11.2
70°-80°	289.6	5.9
80°-90°	71.8	1.5
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°	1459.1	29.7
0°-40°	2351.6	47.8
0°-60°	4007.4	81.4
0°-90°	4921.1	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4921.1	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1934	1934	1934	1934	1934	
5°	1939	1918	1924	1919	1916	184
15°	1846	1822	1825	1822	1818	520
25°	1687	1659	1656	1646	1651	776
35°	1450	1430	1430	1416	1421	907
45°	1166	1156	1150	1147	1145	899
55°	864	862	864	852	850	771
65°	547	564	574	552	533	542
75°	252	276	290	270	245	270
85°	43	56	63	60	56	58
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1934.2	1934.2	1934.2	1934.2	1934.2
2.5°	1945.1	1929.1	1934.2	1929.9	1920.6
5°	1939.3	1917.7	1924.0	1918.8	1915.5
7.5°	1919.6	1899.6	1904.2	1898.7	1896.7
10°	1901.8	1881.8	1886.5	1879.6	1876.3
12.5°	1881.4	1860.1	1864.7	1857.8	1855.8
15°	1845.6	1822.3	1825.1	1821.7	1818.3
17.5°	1804.0	1780.4	1780.8	1775.4	1774.7
20°	1774.0	1749.0	1746.8	1740.0	1743.3
22.5°	1741.3	1715.0	1712.7	1703.2	1707.9
25°	1687.1	1658.8	1656.4	1646.3	1651.3
27.5°	1624.4	1596.4	1596.4	1582.3	1587.6
30°	1578.0	1551.4	1554.2	1537.3	1544.0
32.5°	1529.0	1505.0	1506.5	1489.6	1496.2
35°	1450.2	1430.2	1429.8	1416.3	1421.3
37.5°	1369.8	1352.1	1349.3	1341.5	1342.9
40°	1313.9	1298.9	1293.5	1288.3	1288.3
42.5°	1255.3	1241.6	1236.2	1232.4	1231.1
45°	1165.6	1155.6	1150.3	1146.9	1145.2
47.5°	1077.0	1067.7	1063.0	1060.6	1059.0
50°	1015.7	1009.0	1007.2	1002.0	1000.3
52.5°	954.3	950.3	948.5	942.0	940.4
55°	864.0	862.3	864.0	852.0	850.4
57.5°	769.9	772.6	778.1	762.0	758.0
60°	707.2	713.9	720.9	702.0	695.3
62.5°	643.1	653.8	663.6	641.9	632.6
65°	547.0	563.7	574.3	551.7	533.4
67.5°	454.3	475.0	487.7	463.4	442.7
70°	390.3	413.6	427.7	403.4	380.0
72.5°	334.4	360.3	371.8	348.8	325.5
75°	252.2	275.5	289.7	270.4	245.4
77.5°	178.9	200.9	212.7	195.8	175.2
80°	131.2	154.5	163.6	149.6	132.9
82.5°	93.0	112.4	118.6	110.2	98.8
85°	42.6	55.9	63.1	59.6	56.2
87.5°	10.9	20.2	25.9	25.9	27.3
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)