

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: P564959

Luminaire Tested: **SQ4-PW1-100U-100D-835-1D-UNV-STD-W-6**

Issue Date: 7/30/2021

Test Information

Test Method: LM-79-2019
Report Number: P564959
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1910-536-23, 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-PW1-100U-100D-835-1D-UNV-STD-W-6
Description: CORELITE SQ4 SUSPENDED LED LUMINAIRE WITH PERCEIVE WAVES CONTINUOUS LENS.
DOWNLIGHT 1000 LUMENS PER FOOT
UPLIGHT 1000 LUMENS PER FOOT
Light Source: 3500K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

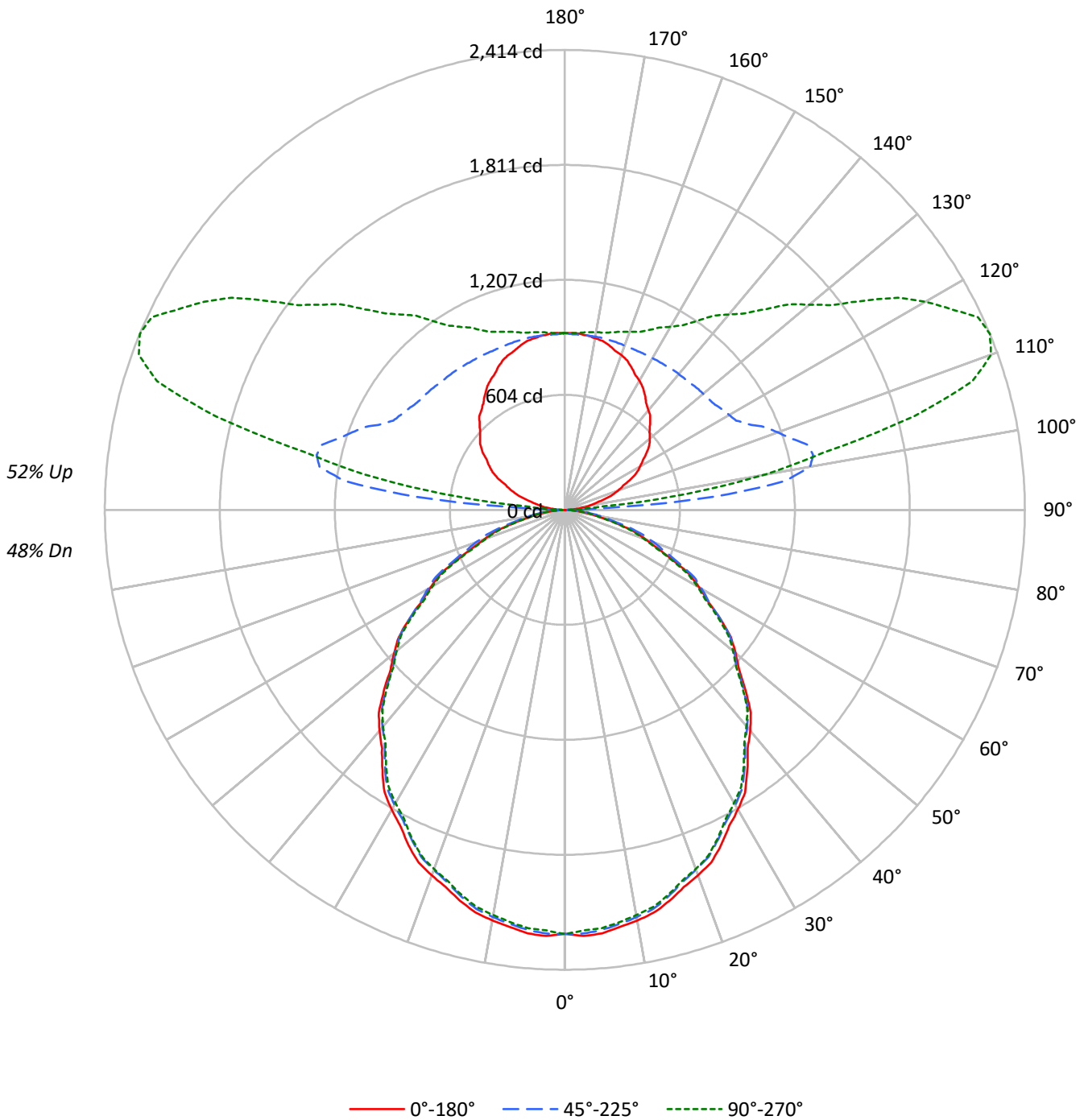
Lumens per Lamp: N/A
Luminaire Lumens: 11690.1 lumens
Efficiency: N/A
Efficacy: 125.8 lumens/watt
Spacing Criteria (0/90/45): 1.22 / 1.19 / 1.31
Luminous Opening: Rectangular (W 0.29' x L: 6' x H: 0')
CIE Type: General Diffuse

Input Watts (W): 92.9
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



TEST NUMBER: P564959
CATALOG NUMBER: SQ4-PW1-100U-100D-835-1D-UNV-STD-W-6

Luminous Intensity Polar Plot





TEST NUMBER: P564959

CATALOG NUMBER: SQ4-PW1-100U-100D-835-1D-UNV-STD-W-6

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	107	107	107	107	98	98	98	98	82	82	82	68	68	68	55	55	55	48				48
1	98	93	89	86	90	86	83	80	72	70	68	60	58	57	49	47	46	41				41
2	89	82	75	70	82	75	70	66	64	60	56	53	50	48	43	41	39	35				35
3	81	72	64	59	74	66	60	55	56	51	47	47	43	40	38	36	33	29				29
4	74	63	56	50	68	59	52	47	50	45	40	42	38	35	34	31	29	25				25
5	68	57	48	43	62	52	45	40	45	39	35	37	33	30	31	28	25	22				22
6	63	51	43	37	58	47	40	35	40	35	30	34	30	26	28	25	22	19				19
7	58	46	38	32	53	43	35	30	36	31	27	31	26	23	25	22	20	17				17
8	54	42	34	29	49	39	32	27	33	28	24	28	24	21	23	20	18	15				15
9	50	38	30	25	46	35	29	24	30	25	21	26	22	19	21	18	16	14				14
10	47	35	28	23	43	32	26	22	28	23	19	24	20	17	20	17	14	12				12

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	13692	13692	13692
5°	13780	13672	13611
10°	13671	13560	13487
15°	13526	13376	13326
20°	13364	13159	13133
25°	13178	12938	12898
30°	12899	12704	12620
35°	12533	12356	12282
40°	12142	11952	11905
45°	11669	11516	11465
50°	11185	11091	11017
55°	10664	10664	10495
60°	10012	10205	9844
65°	9163	9620	8935
70°	8076	8853	7866
75°	6899	7923	6711
80°	5349	6670	5419
85°	3458	5124	4566



TEST NUMBER: P564959

CATALOG NUMBER: SQ4-PW1-100U-100D-835-1D-UNV-STD-W-6

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	209.6	1.8
10°-20°	591.8	5.1
20°-30°	877.9	7.5
30°-40°	1027.2	8.8
40°-50°	1022.6	8.7
50°-60°	883.1	7.6
60°-70°	635.6	5.4
70°-80°	333.3	2.9
80°-90°	84.6	0.7
90°-100°	434.2	3.7
100°-110°	1198.7	10.3
110°-120°	1236.3	10.6
120°-130°	993.5	8.5
130°-140°	780.8	6.7
140°-150°	598.8	5.1
150°-160°	430.4	3.7
160°-170°	263.2	2.3
170°-180°	88.7	0.8
0°-30°	1679.3	14.4
0°-40°	2706.5	23.2
0°-60°	4612.1	39.5
0°-90°	5665.6	48.5
90°-120°	2869.2	24.5
90°-150°	5242.2	44.8
90°-180°	6024.0	51.5
0°-180°	11690.1	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2226	2226	2226	2226	2226	
5°	2232	2207	2214	2208	2204	211
15°	2124	2097	2100	2096	2093	599
25°	1942	1909	1906	1895	1900	893
35°	1669	1646	1646	1630	1636	1043
45°	1342	1330	1324	1320	1318	1035
55°	994	992	994	981	979	887
65°	630	649	661	635	614	624
75°	290	317	333	311	282	311
85°	49	64	73	69	65	65
90°	3	6	12	13	15	6
95°	64	235	788	324	211	68
105°	214	330	1319	2013	1896	227
115°	383	462	1062	2103	2391	376
125°	525	598	963	1629	1912	467
135°	632	700	936	1320	1488	489
145°	733	784	924	1124	1209	459
155°	826	854	917	1008	1040	381
165°	895	906	921	957	964	252
175°	927	929	923	936	933	88
180°	927	927	927	927	927	

TEST NUMBER: P564959

CATALOG NUMBER: SQ4-PW1-100U-100D-835-1D-UNV-STD-W-6

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2226.1	2226.1	2226.1	2226.1	2226.1
2.5°	2238.6	2220.2	2226.1	2221.1	2210.4
5°	2231.9	2207.0	2214.3	2208.3	2204.5
7.5°	2209.2	2186.2	2191.5	2185.2	2182.9
10°	2188.8	2165.8	2171.1	2163.2	2159.4
12.5°	2165.3	2140.7	2146.0	2138.1	2135.8
15°	2124.1	2097.2	2100.5	2096.5	2092.7
17.5°	2076.2	2049.0	2049.5	2043.3	2042.5
20°	2041.7	2012.9	2010.3	2002.6	2006.4
22.5°	2004.0	1973.7	1971.1	1960.2	1965.6
25°	1941.7	1909.1	1906.4	1894.7	1900.5
27.5°	1869.5	1837.3	1837.3	1821.0	1827.1
30°	1816.2	1785.5	1788.7	1769.3	1776.9
32.5°	1759.7	1732.1	1733.8	1714.3	1722.0
35°	1669.1	1646.0	1645.5	1630.0	1635.7
37.5°	1576.5	1556.2	1552.9	1544.0	1545.5
40°	1512.2	1494.9	1488.6	1482.7	1482.7
42.5°	1444.7	1429.0	1422.7	1418.4	1416.8
45°	1341.5	1330.0	1323.9	1319.9	1318.0
47.5°	1239.5	1228.8	1223.5	1220.7	1218.7
50°	1168.9	1161.3	1159.1	1153.2	1151.3
52.5°	1098.3	1093.7	1091.7	1084.2	1082.2
55°	994.4	992.5	994.4	980.6	978.7
57.5°	886.1	889.2	895.5	877.0	872.4
60°	813.9	821.6	829.6	807.9	800.2
62.5°	740.2	752.5	763.7	738.8	728.0
65°	629.6	648.8	661.0	635.0	613.9
67.5°	522.9	546.7	561.3	533.3	509.5
70°	449.1	476.0	492.3	464.2	437.4
72.5°	384.8	414.7	428.0	401.5	374.6
75°	290.3	317.1	333.4	311.2	282.4
77.5°	205.9	231.2	244.8	225.4	201.6
80°	151.0	177.9	188.3	172.2	153.0
82.5°	107.1	129.3	136.5	126.8	113.8
85°	49.0	64.4	72.6	68.6	64.7
87.5°	13.1	24.5	32.2	32.5	34.3
90°	3.0	5.9	11.9	13.4	14.8
92.5°	26.7	110.8	198.2	72.3	56.4
95°	63.8	235.0	787.8	323.8	210.7
97.5°	105.6	263.2	1166.9	898.4	650.7
100°	136.5	280.1	1307.0	1316.2	1069.6
102.5°	166.2	299.3	1334.3	1626.3	1392.4
105°	213.6	329.7	1318.9	2013.4	1895.9
107.5°	264.1	367.3	1245.3	2200.2	2243.1
110°	299.7	392.5	1188.3	2240.3	2379.6



TEST NUMBER: P564959

CATALOG NUMBER: SQ4-PW1-100U-100D-835-1D-UNV-STD-W-6

CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	331.7	421.1	1134.9	2208.6	2414.0
115°	382.7	462.5	1062.2	2102.8	2391.4
117.5°	427.3	506.7	1014.4	1953.8	2282.3
120°	456.9	535.3	995.4	1853.0	2183.7
122.5°	485.4	560.3	980.0	1758.9	2072.2
125°	525.2	597.7	962.8	1629.4	1912.3
127.5°	559.0	631.5	952.7	1519.9	1763.9
130°	581.5	654.1	948.0	1453.0	1674.9
132.5°	602.9	672.0	943.2	1396.7	1597.8
135°	632.0	700.2	936.1	1319.7	1488.0
137.5°	664.6	726.7	932.5	1255.1	1398.7
140°	682.4	743.3	930.2	1211.9	1338.1
142.5°	702.6	758.9	927.8	1173.6	1284.7
145°	732.9	783.6	924.2	1123.5	1209.1
147.5°	761.9	806.3	921.0	1081.2	1147.7
150°	783.3	819.6	919.8	1056.0	1109.7
152.5°	799.9	833.9	918.6	1034.4	1078.8
155°	826.3	853.9	916.8	1008.0	1040.0
157.5°	850.7	871.8	917.1	988.8	1010.6
160°	864.9	883.8	918.3	978.0	994.0
162.5°	876.8	893.3	919.5	968.4	980.9
165°	894.6	906.2	921.3	957.0	964.3
167.5°	908.2	915.2	922.8	950.1	952.4
170°	915.3	921.1	922.8	946.5	946.5
172.5°	921.3	924.7	922.8	941.7	940.6
175°	927.2	928.7	922.8	936.0	933.1
177.5°	929.6	928.4	922.5	930.7	928.4
180°	927.2	927.2	927.2	927.2	927.2

(END OF REPORT)