

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: P564982

Luminaire Tested: **SQ4-PW1-100U-125D-835-1D-UNV-STD-W-4**

Issue Date: 7/30/2021

Test Information

Test Method: LM-79-2019
Report Number: P564982
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-125D-835-1D-UNV-STD-W-4
Description: CORELITE SQ4 SUSPENDED LED LUMINAIRE WITH PERCEIVE WAVES CONTINUOUS LENS.
DOWNLIGHT 1250 LUMENS PER FOOT
UPLIGHT 1000 LUMENS PER FOOT
Light Source: 3500K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

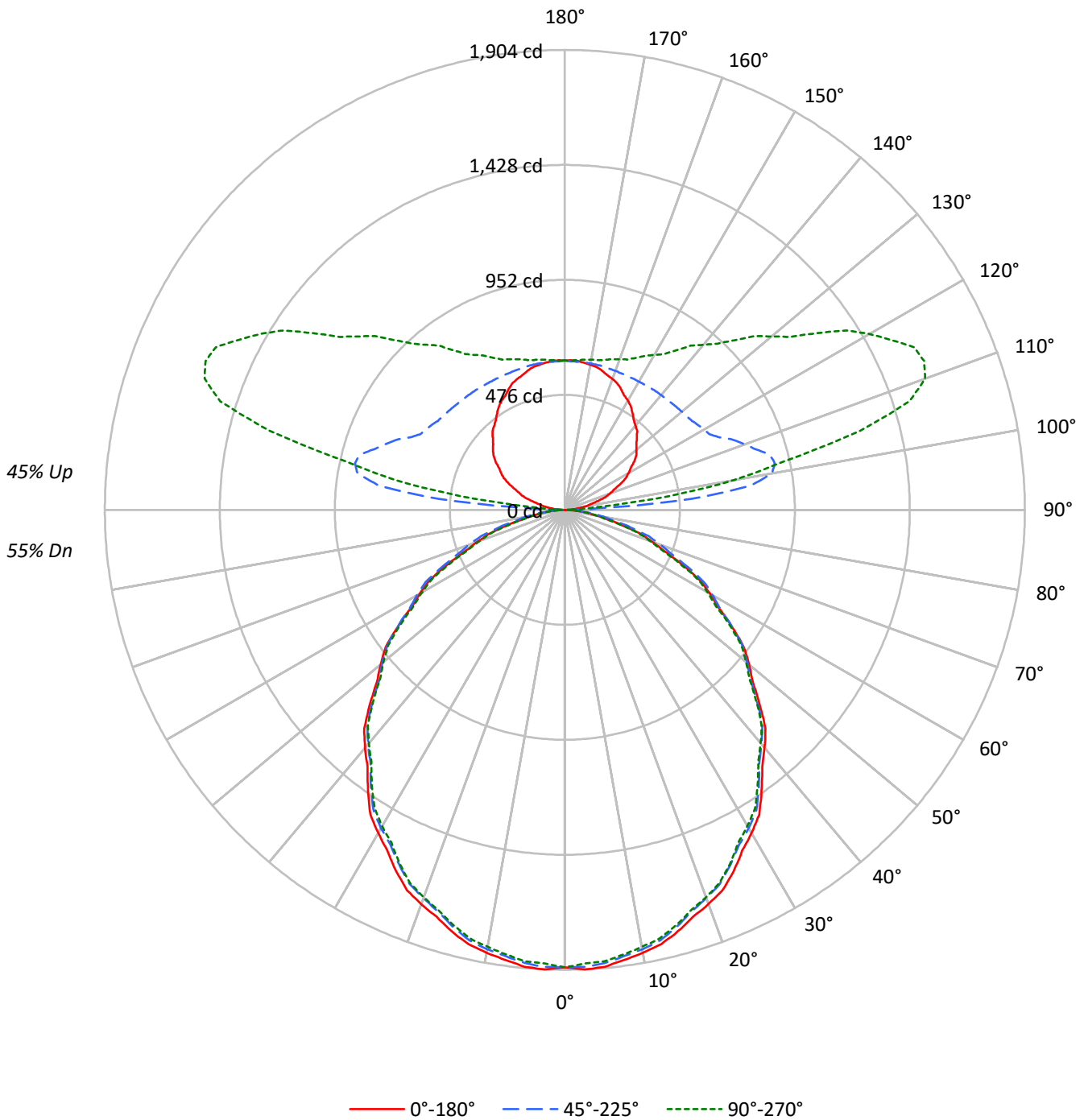
Lumens per Lamp: N/A
Luminaire Lumens: 8836.0 lumens
Efficiency: N/A
Efficacy: 128.6 lumens/watt
Spacing Criteria (0/90/45): 1.22 / 1.19 / 1.31
Luminous Opening: Rectangular (W 0.29' x L: 4' x H: 0')
CIE Type: General Diffuse

Input Watts (W): 68.7
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	108	108	108	108	100	100	100	100	86	86	86	73	73	73	60	60	60	55				
1	99	95	91	87	92	88	85	82	76	73	71	64	62	61	53	52	51	46				
2	90	83	77	71	83	77	72	67	66	62	59	56	53	51	47	45	43	39				
3	82	73	65	60	76	68	61	56	59	54	49	50	46	43	42	39	37	33				
4	75	64	57	50	70	60	53	48	52	47	42	44	40	37	37	34	32	28				
5	69	57	49	43	64	54	46	41	47	41	36	40	36	32	34	30	28	25				
6	64	52	43	38	59	48	41	36	42	36	32	36	32	28	31	27	24	22				
7	59	47	39	33	55	44	36	31	38	32	28	33	28	25	28	24	22	19				
8	55	42	35	29	51	40	33	28	35	29	25	30	26	22	26	22	19	17				
9	51	39	31	26	47	36	30	25	32	26	22	28	23	20	24	20	18	15				
10	48	36	28	23	44	33	27	22	29	24	20	26	21	18	22	19	16	14				

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	17473	17473	17473
5°	17586	17447	17370
10°	17445	17305	17211
15°	17261	17069	17006
20°	17054	16792	16760
25°	16816	16511	16460
30°	16461	16211	16105
35°	15994	15767	15674
40°	15495	15254	15192
45°	14891	14696	14631
50°	14274	14154	14059
55°	13608	13608	13393
60°	12778	13024	12562
65°	11693	12276	11402
70°	10307	11297	10038
75°	8801	10113	8566
80°	6827	8512	6912
85°	4414	6531	5833



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	178.3	2.0
10°-20°	503.5	5.7
20°-30°	746.8	8.5
30°-40°	873.9	9.9
40°-50°	870.0	9.8
50°-60°	751.3	8.5
60°-70°	540.8	6.1
70°-80°	283.6	3.2
80°-90°	71.6	0.8
90°-100°	289.5	3.3
100°-110°	799.1	9.0
110°-120°	824.2	9.3
120°-130°	662.3	7.5
130°-140°	520.5	5.9
140°-150°	399.2	4.5
150°-160°	286.9	3.2
160°-170°	175.5	2.0
170°-180°	59.2	0.7
0°-30°	1428.7	16.2
0°-40°	2302.5	26.1
0°-60°	3923.8	44.4
0°-90°	4819.7	54.5
90°-120°	1912.8	21.6
90°-150°	3494.8	39.6
90°-180°	4016.0	45.5
0°-180°	8836.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1894	1894	1894	1894	1894	
5°	1899	1878	1884	1879	1876	180
15°	1807	1784	1787	1784	1780	509
25°	1652	1624	1622	1612	1617	760
35°	1420	1400	1400	1387	1392	888
45°	1141	1132	1126	1123	1121	881
55°	846	844	846	834	833	755
65°	536	552	562	540	522	531
75°	247	270	284	265	240	265
85°	42	55	62	58	55	55
90°	2	4	8	9	10	5
95°	42	157	525	216	140	45
105°	142	220	879	1342	1264	152
115°	255	308	708	1402	1594	251
125°	350	398	642	1086	1275	312
135°	421	467	624	880	992	326
145°	489	522	616	749	806	306
155°	551	569	611	672	693	254
165°	596	604	614	638	643	168
175°	618	619	615	624	622	59
180°	618	618	618	618	618	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1893.8	1893.8	1893.8	1893.8	1893.8
2.5°	1904.5	1888.9	1893.8	1889.6	1880.5
5°	1898.8	1877.6	1883.8	1878.7	1875.5
7.5°	1879.5	1859.9	1864.5	1859.1	1857.1
10°	1862.1	1842.6	1847.1	1840.4	1837.1
12.5°	1842.1	1821.2	1825.8	1819.0	1817.1
15°	1807.1	1784.2	1787.0	1783.6	1780.4
17.5°	1766.4	1743.2	1743.7	1738.3	1737.7
20°	1737.0	1712.5	1710.3	1703.7	1707.0
22.5°	1705.0	1679.2	1676.9	1667.7	1672.3
25°	1651.9	1624.2	1621.9	1612.0	1616.9
27.5°	1590.5	1563.1	1563.1	1549.2	1554.4
30°	1545.1	1519.0	1521.7	1505.2	1511.7
32.5°	1497.0	1473.6	1475.0	1458.5	1465.0
35°	1420.0	1400.4	1399.9	1386.7	1391.6
37.5°	1341.2	1323.9	1321.2	1313.5	1314.8
40°	1286.5	1271.8	1266.5	1261.4	1261.4
42.5°	1229.1	1215.7	1210.4	1206.7	1205.4
45°	1141.3	1131.5	1126.3	1122.9	1121.3
47.5°	1054.5	1045.4	1040.9	1038.5	1036.9
50°	994.5	987.9	986.1	981.1	979.5
52.5°	934.4	930.5	928.7	922.4	920.7
55°	846.0	844.3	846.0	834.3	832.6
57.5°	753.9	756.5	761.9	746.1	742.2
60°	692.5	699.0	705.8	687.3	680.8
62.5°	629.7	640.2	649.7	628.5	619.4
65°	535.6	551.9	562.3	540.2	522.3
67.5°	444.8	465.1	477.5	453.7	433.5
70°	382.1	404.9	418.8	394.9	372.1
72.5°	327.4	352.8	364.1	341.5	318.7
75°	246.9	269.8	283.7	264.7	240.3
77.5°	175.2	196.7	208.2	191.8	171.5
80°	128.5	151.3	160.2	146.5	130.1
82.5°	91.1	110.0	116.1	107.9	96.8
85°	41.7	54.8	61.7	58.3	55.1
87.5°	11.1	20.6	26.9	27.2	28.7
90°	2.0	3.9	7.9	8.9	9.9
92.5°	17.8	73.9	132.1	48.2	37.6
95°	42.5	156.6	525.2	215.9	140.4
97.5°	70.4	175.4	778.0	599.0	433.8
100°	91.0	186.7	871.3	877.5	713.1
102.5°	110.8	199.5	889.5	1084.2	928.3
105°	142.4	219.8	879.2	1342.3	1264.0
107.5°	176.0	244.9	830.2	1466.8	1495.4
110°	199.8	261.7	792.2	1493.5	1586.4



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	221.1	280.7	756.6	1472.4	1609.3
115°	255.2	308.4	708.1	1401.9	1594.3
117.5°	284.8	337.8	676.3	1302.6	1521.5
120°	304.6	356.8	663.6	1235.3	1455.8
122.5°	323.6	373.5	653.3	1172.6	1381.5
125°	350.1	398.5	641.9	1086.3	1274.8
127.5°	372.7	421.0	635.1	1013.3	1175.9
130°	387.7	436.0	632.0	968.6	1116.6
132.5°	401.9	448.0	628.8	931.1	1065.2
135°	421.3	466.8	624.1	879.8	992.0
137.5°	443.1	484.5	621.7	836.7	932.4
140°	454.9	495.6	620.1	808.0	892.1
142.5°	468.4	505.9	618.5	782.4	856.5
145°	488.6	522.4	616.2	749.0	806.0
147.5°	508.0	537.5	614.0	720.8	765.1
150°	522.2	546.4	613.2	704.0	739.8
152.5°	533.3	555.9	612.4	689.6	719.2
155°	550.9	569.3	611.2	672.0	693.3
157.5°	567.1	581.2	611.4	659.2	673.7
160°	576.6	589.2	612.2	652.0	662.6
162.5°	584.5	595.5	613.0	645.6	653.9
165°	596.4	604.1	614.2	638.0	642.9
167.5°	605.5	610.1	615.2	633.4	634.9
170°	610.2	614.1	615.2	631.0	631.0
172.5°	614.2	616.5	615.2	627.8	627.0
175°	618.1	619.1	615.2	624.0	622.1
177.5°	619.7	618.9	615.0	620.5	618.9
180°	618.1	618.1	618.1	618.1	618.1

(END OF REPORT)