

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: P564790

Luminaire Tested: **SQ4-PW1-075U-125D-835-1D-UNV-STD-W-4**

Issue Date: 7/30/2021

**Test Information**

Test Method: LM-79-2019  
Report Number: P564790  
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1910-536-22, 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-PW1-075U-125D-835-1D-UNV-STD-W-4  
Description: CORELITE SQ4 SUSPENDED LED LUMINAIRE WITH PERCEIVE WAVES CONTINUOUS LENS.  
DOWNLIGHT 1250 LUMENS PER FOOT  
UPLIGHT 750 LUMENS PER FOOT  
Light Source: 3500K CCT, 80 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

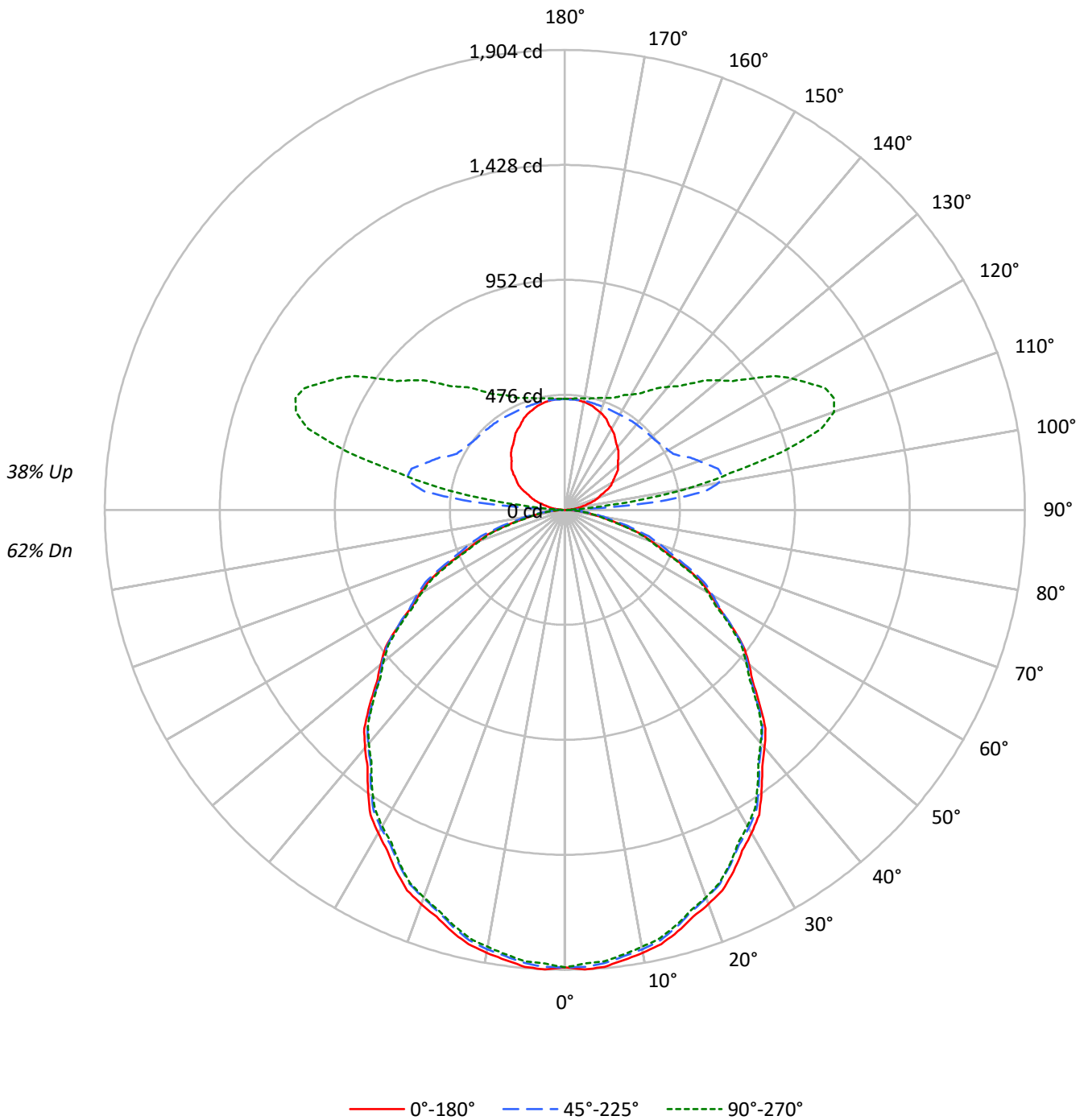
Lumens per Lamp: N/A  
Luminaire Lumens: 7813.4 lumens  
Efficiency: N/A  
Efficacy: 125.8 lumens/watt  
Spacing Criteria (0/90/45): 1.22 / 1.19 / 1.31  
Luminous Opening: Rectangular (W 0.29' x L: 4' x H: 0')  
CIE Type: Semi-Direct

Input Watts (W): 62.1  
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	110	110	110	110	103	103	103	103	90	90	90	78	78	78	67	67	67	62
1	101	96	92	89	94	90	87	84	79	77	74	69	67	65	59	58	57	52
2	92	84	78	73	86	79	74	69	69	65	62	61	57	55	52	50	48	44
3	84	74	67	61	78	70	63	58	61	56	52	54	50	46	46	43	41	37
4	77	66	58	51	71	62	55	49	55	49	44	48	43	40	42	38	35	32
5	70	59	50	44	66	55	48	42	49	43	38	43	38	35	37	34	31	28
6	65	53	44	38	61	50	42	37	44	38	34	39	34	30	34	30	27	24
7	60	48	39	34	56	45	38	32	40	34	30	35	31	27	31	27	24	22
8	56	43	35	30	52	41	34	29	37	31	26	32	28	24	29	25	22	19
9	52	40	32	27	49	38	31	26	34	28	24	30	25	22	26	22	20	18
10	49	36	29	24	46	35	28	23	31	25	21	28	23	20	24	21	18	16

**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	2.3
10°-20°	503.5	6.4
20°-30°	746.8	9.6
30°-40°	873.9	11.2
40°-50°	870.0	11.1
50°-60°	751.3	9.6
60°-70°	540.8	6.9
70°-80°	283.6	3.6
80°-90°	71.5	0.9
90°-100°	216.8	2.8
100°-110°	596.3	7.6
110°-120°	615.5	7.9
120°-130°	493.1	6.3
130°-140°	387.3	5.0
140°-150°	296.8	3.8
150°-160°	213.4	2.7
160°-170°	130.5	1.7
170°-180°	44.0	0.6
0°-30°	1428.7	18.3
0°-40°	2302.5	29.5
0°-60°	3923.8	50.2
0°-90°	4819.6	61.7
90°-120°	1428.6	18.3
90°-150°	2605.9	33.4
90°-180°	2994.0	38.3
0°-180°	7813.4	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°	1	4	7	9	9	4
95°	32	118	383	164	105	34
105°	107	164	657	1001	934	112
115°	189	230	527	1049	1191	186
125°	260	296	478	809	948	232
135°	314	348	464	654	740	242
145°	363	388	458	557	600	227
155°	411	424	455	501	515	189
165°	444	450	457	475	478	125
175°	460	460	458	463	462	44
180°	460	460	460	460	460	

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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°	10.9	20.6	26.7	27.2	28.5
90°	1.0	3.8	6.8	8.8	8.8
92.5°	13.5	57.7	99.9	38.4	31.5
95°	32.3	118.3	383.3	163.9	104.6
97.5°	52.6	131.2	584.9	450.7	318.0
100°	67.5	139.2	648.3	654.3	533.9
102.5°	81.5	148.7	664.7	811.8	701.3
105°	106.6	163.9	657.1	1000.7	933.8
107.5°	130.4	182.8	619.7	1093.2	1113.1
110°	147.6	195.4	591.5	1116.2	1185.1

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**CANDELA DISTRIBUTION (continued):**

	0°	22.5°	45°	67.5°	90°
112.5°	163.3	209.6	563.4	1101.4	1206.2
115°	188.7	229.8	527.0	1049.4	1190.9
117.5°	213.0	250.8	503.9	976.5	1136.6
120°	227.8	264.1	493.8	921.9	1087.3
122.5°	241.1	277.4	486.7	874.0	1031.0
125°	260.1	296.4	478.1	808.8	947.5
127.5°	278.1	312.7	472.5	754.5	876.1
130°	287.5	322.8	469.3	722.2	833.1
132.5°	298.4	333.8	467.0	693.8	793.9
135°	313.9	348.3	464.4	654.1	740.2
137.5°	328.3	360.3	462.3	622.1	693.0
140°	339.3	368.9	461.5	600.8	664.9
142.5°	348.7	376.0	459.9	581.8	636.7
145°	362.8	387.6	457.6	557.3	600.3
147.5°	377.8	399.2	456.4	535.6	570.0
150°	387.2	406.3	455.6	523.7	550.5
152.5°	395.8	413.4	454.9	513.4	535.6
155°	410.7	424.0	454.7	500.9	515.3
157.5°	421.4	432.3	454.7	490.7	500.6
160°	429.2	437.8	454.7	485.1	492.8
162.5°	435.5	442.6	455.4	480.4	486.5
165°	443.9	449.6	456.6	475.3	478.1
167.5°	449.8	454.2	457.6	470.9	471.7
170°	453.7	456.6	457.6	469.3	469.3
172.5°	456.8	458.2	457.6	467.0	466.2
175°	459.5	460.5	457.6	463.4	462.5
177.5°	460.3	460.3	457.2	461.9	460.3
180°	459.5	459.5	459.5	459.5	459.5

(END OF REPORT)