

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: P562391

Luminaire Tested: **SQ4-PW1-100U-125D-92765-1D-UNV-STD-W-4 (4000K)**

Issue Date: 7/30/2021

**Test Information**

Test Method: LM-79-2019  
Report Number: P562391  
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2101-105-51, 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-92765-1D-UNV-STD-W-4 (4000K)  
Description: CORELITE SQ4 SUSPENDED LED LUMINAIRE WITH PERCEIVE WAVES CONTINUOUS LENS  
DOWNLIGHT 1250 LUMENS PER FOOT  
UPLIGHT 1000 LUMENS PER FOOT  
Light Source: 2700K/65000K CCT, 90 CRI LEDS, TUNED TO 4000K CCT  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

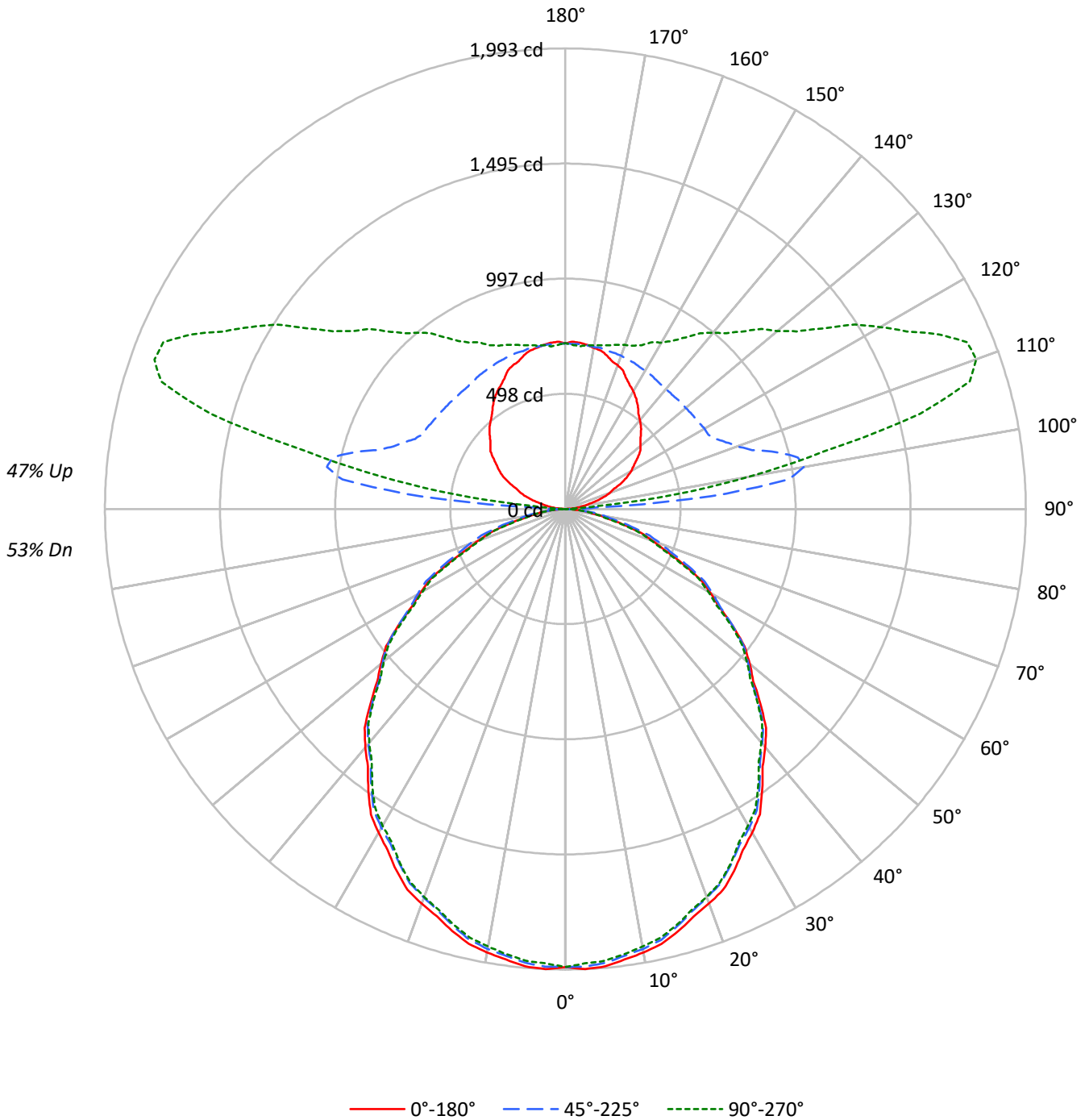
Lumens per Lamp: N/A  
Luminaire Lumens: 9494.7 lumens  
Efficiency: N/A  
Efficacy: 107.7 lumens/watt  
Spacing Criteria (0/90/45): 1.22 / 1.19 / 1.31  
Luminous Opening: Rectangular (W 0.29' x L: 4' x H: 0')  
CIE Type: General Diffuse

Input Watts (W): 88.2  
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	85	85	85	71	71	71	59	59	59	53				
1	99	94	90	87	91	88	84	81	75	72	70	63	61	60	52	51	50	45				
2	90	82	76	71	83	77	71	67	66	62	58	56	53	50	46	44	42	38				
3	82	73	65	59	76	67	61	56	58	53	49	49	45	42	41	38	36	32				
4	75	64	56	50	69	60	53	47	52	46	42	44	40	36	37	34	31	28				
5	69	57	49	43	64	53	46	41	46	40	36	39	35	32	33	30	27	24				
6	64	51	43	37	59	48	41	35	42	36	32	36	31	28	30	27	24	21				
7	59	46	38	33	54	43	36	31	38	32	28	32	28	24	27	24	21	19				
8	55	42	34	29	50	39	32	28	34	29	25	30	25	22	25	22	19	17				
9	51	39	31	26	47	36	29	25	32	26	22	27	23	20	23	20	17	15				
10	47	35	28	23	44	33	27	22	29	24	20	25	21	18	22	18	16	14				

**AVERAGE LUMINANCE (cd/sqm):**

	0°	45°	90°
0°	18284	18284	18284
5°	18402	18257	18177
10°	18256	18108	18010
15°	18062	17863	17796
20°	17847	17572	17537
25°	17597	17277	17225
30°	17226	16965	16853
35°	16736	16500	16401
40°	16214	15962	15898
45°	15583	15378	15310
50°	14938	14811	14711
55°	14240	14240	14015
60°	13371	13629	13145
65°	12236	12845	11931
70°	10788	11823	10504
75°	9211	10580	8962
80°	7141	8905	7237
85°	4626	6838	6097



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	186.6	2.0
10°-20°	526.9	5.5
20°-30°	781.5	8.2
30°-40°	914.5	9.6
40°-50°	910.4	9.6
50°-60°	786.2	8.3
60°-70°	565.9	6.0
70°-80°	296.7	3.1
80°-90°	73.6	0.8
90°-100°	326.6	3.4
100°-110°	929.4	9.8
110°-120°	890.4	9.4
120°-130°	704.7	7.4
130°-140°	565.7	6.0
140°-150°	442.8	4.7
150°-160°	324.0	3.4
160°-170°	200.7	2.1
170°-180°	68.1	0.7
0°-30°	1495.0	15.7
0°-40°	2409.5	25.4
0°-60°	4106.0	43.2
0°-90°	5042.2	53.1
90°-120°	2146.4	22.6
90°-150°	3859.7	40.7
90°-180°	4453.0	46.9
0°-180°	9494.7	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	1982	1982	1982	1982	1982	
5°	1987	1965	1971	1966	1963	188
15°	1891	1867	1870	1866	1863	533
25°	1729	1700	1697	1687	1692	795
35°	1486	1465	1465	1451	1456	929
45°	1194	1184	1179	1175	1173	921
55°	885	884	885	873	871	790
65°	560	578	588	565	546	555
75°	258	282	297	277	251	277
85°	44	57	65	61	58	58
90°	0	0	0	0	0	3
95°	35	141	632	219	135	40
105°	144	219	947	1673	1590	153
115°	268	324	718	1521	1786	264
125°	379	420	686	1138	1360	339
135°	463	502	677	961	1086	358
145°	546	574	683	832	906	341
155°	624	639	699	752	782	289
165°	690	692	707	722	733	194
175°	722	718	715	711	706	68
180°	717	717	717	717	717	

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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	1981.8	1981.8	1981.8	1981.8	1981.8
2.5°	1993.0	1976.6	1981.8	1977.4	1967.8
5°	1987.0	1964.8	1971.3	1966.0	1962.6
7.5°	1966.8	1946.3	1951.1	1945.4	1943.4
10°	1948.6	1928.1	1932.9	1925.8	1922.4
12.5°	1927.7	1905.8	1910.6	1903.5	1901.5
15°	1891.0	1867.1	1870.1	1866.5	1863.1
17.5°	1848.4	1824.2	1824.7	1819.0	1818.4
20°	1817.7	1792.1	1789.7	1782.8	1786.2
22.5°	1784.1	1757.2	1754.8	1745.1	1749.9
25°	1728.6	1699.6	1697.2	1686.8	1692.0
27.5°	1664.4	1635.7	1635.7	1621.2	1626.6
30°	1616.9	1589.6	1592.4	1575.1	1581.9
32.5°	1566.6	1542.0	1543.5	1526.2	1533.1
35°	1485.9	1465.4	1465.0	1451.1	1456.2
37.5°	1403.5	1385.4	1382.5	1374.5	1375.9
40°	1346.2	1330.9	1325.3	1320.0	1320.0
42.5°	1286.2	1272.2	1266.6	1262.7	1261.4
45°	1194.3	1184.1	1178.6	1175.1	1173.4
47.5°	1103.5	1094.0	1089.2	1086.7	1085.0
50°	1040.7	1033.8	1031.9	1026.7	1024.9
52.5°	977.8	973.7	971.9	965.2	963.5
55°	885.3	883.6	885.3	873.0	871.3
57.5°	788.9	791.6	797.3	780.8	776.7
60°	724.6	731.5	738.6	719.2	712.4
62.5°	659.0	669.9	679.9	657.7	648.1
65°	560.5	577.6	588.4	565.3	546.5
67.5°	465.5	486.7	499.7	474.8	453.6
70°	399.9	423.8	438.3	413.3	389.4
72.5°	342.6	369.2	381.0	357.4	333.5
75°	258.4	282.3	296.8	277.0	251.4
77.5°	183.3	205.9	217.9	200.7	179.5
80°	134.4	158.3	167.6	153.3	136.2
82.5°	95.3	115.1	121.5	112.9	101.3
85°	43.7	57.3	64.6	61.0	57.6
87.5°	11.2	20.7	26.5	26.6	27.9
90°	0.0	0.0	0.0	0.0	0.0
92.5°	10.9	57.8	134.1	39.0	29.4
95°	35.4	140.7	632.3	218.9	134.9
97.5°	65.1	164.8	973.8	696.8	477.5
100°	85.9	179.1	1047.9	1061.5	817.6
102.5°	108.7	194.6	1031.6	1358.7	1145.8
105°	144.4	219.1	947.1	1672.9	1590.3
107.5°	180.7	247.6	848.4	1761.5	1835.1
110°	205.8	268.4	791.7	1727.6	1892.8

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**CANDELA DISTRIBUTION (continued):**

	0°	22.5°	45°	67.5°	90°
112.5°	229.8	289.2	753.6	1647.4	1883.0
115°	268.5	324.4	718.2	1521.4	1786.5
117.5°	302.5	355.0	697.2	1383.6	1664.4
120°	329.8	373.8	695.0	1304.8	1574.0
122.5°	351.6	395.6	689.5	1235.7	1485.7
125°	378.8	420.1	685.5	1137.5	1360.0
127.5°	408.5	447.2	683.3	1078.8	1262.2
130°	423.8	462.5	680.0	1037.9	1197.8
132.5°	440.2	477.7	680.0	1006.0	1153.1
135°	463.3	502.0	677.3	960.8	1086.1
137.5°	485.1	522.7	677.0	922.6	1030.8
140°	501.5	540.1	675.9	890.9	994.8
142.5°	520.0	552.3	679.2	865.5	958.8
145°	546.5	574.4	682.7	831.6	906.2
147.5°	569.1	596.3	688.7	797.3	861.8
150°	588.7	607.4	690.9	786.0	831.3
152.5°	604.0	623.7	693.1	770.6	812.7
155°	624.1	638.8	699.1	751.6	782.2
157.5°	649.2	658.0	700.4	742.9	764.8
160°	662.3	668.9	705.9	736.3	755.0
162.5°	669.9	677.6	707.0	730.8	745.1
165°	689.5	692.2	707.3	722.5	733.1
167.5°	702.9	700.5	713.5	720.4	724.7
170°	707.3	705.9	711.3	712.8	718.2
172.5°	717.1	712.5	714.6	710.6	714.9
175°	722.2	718.3	715.4	711.2	705.9
177.5°	724.4	718.0	714.6	710.3	711.3
180°	716.8	716.8	716.8	716.8	716.8

(END OF REPORT)