

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: P519409

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

Issue Date: 4/29/2021

**Test Information**

Test Method: LM-79-2019  
Report Number: P519409  
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1910-536-23, G2-2009-966-13)  
Test Lab: INNOVATION CENTER  
Issue Date: 4/29/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: CORELITE  
Catalog Number: SQ4-WB-100U-100D-835-1D-UNV-STD-W-6  
Description: CORELITE SQ4 SUSPENDED LED LUMINAIRE WITH WHITE BAFFLE  
DOWNLIGHT 1000 LUMENS PER FOOT  
UPLIGHT 1000 LUMENS PER FOOT  
Light Source: 3500K CCT, 80 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

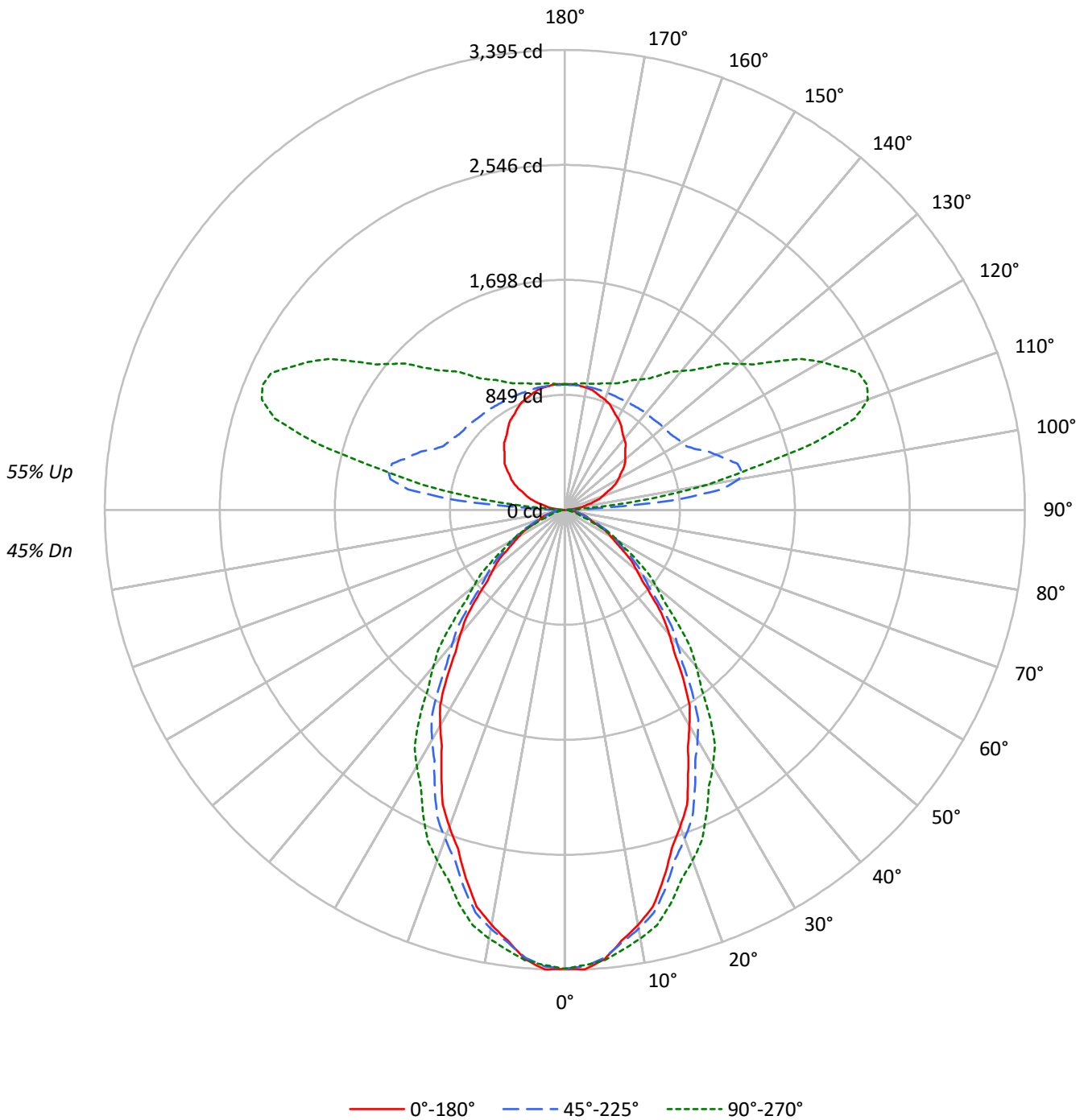
Lumens per Lamp: N/A  
Luminaire Lumens: 10962.0 lumens  
Efficiency: N/A  
Efficacy: 118.0 lumens/watt  
Spacing Criteria (0/90/45): 0.89 / 1 / 1.02  
Luminous Opening: Rectangular (W 0.29' x L: 6' x H: 0')  
CIE Type: General Diffuse

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



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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	106	106	106	106	97	97	97	97	81	81	81	65	65	65	52	52	52	45
1	98	94	90	87	89	86	83	81	72	70	68	59	58	56	47	46	46	40
2	90	83	78	73	82	77	72	68	64	61	58	53	51	49	43	41	40	35
3	83	74	67	62	76	68	63	58	58	54	50	48	45	43	39	37	35	31
4	76	66	59	54	70	61	55	50	52	47	44	44	40	37	36	33	31	28
5	70	60	52	47	65	55	49	44	47	42	39	40	36	33	33	30	28	25
6	65	54	46	41	60	50	44	39	43	38	34	36	33	30	30	27	25	22
7	61	49	42	36	56	46	39	34	39	34	31	33	30	27	28	25	23	20
8	56	45	38	33	52	42	35	31	36	31	28	31	27	24	26	23	21	19
9	53	41	34	29	49	39	32	28	33	28	25	29	25	22	24	21	19	17
10	49	38	31	27	46	36	29	25	31	26	23	27	23	20	22	20	18	16

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

	0°	45°	90°
0°	20833	20833	20833
5°	20573	20500	20619
10°	19437	19614	20069
15°	17944	18360	19183
20°	16294	16907	18026
25°	14615	15412	16794
30°	13068	13923	15516
35°	11428	12254	14005
40°	9618	10382	12124
45°	7937	8623	10122
50°	6627	7225	8433
55°	5626	6199	6965
60°	4809	5375	5558
65°	3829	4520	3590
70°	3394	3528	2192
75°	3144	2861	1343
80°	2894	2632	1158
85°	2625	2414	946



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	310.7	2.8
10°-20°	808.1	7.4
20°-30°	1046.7	9.5
30°-40°	1025.0	9.4
40°-50°	784.6	7.2
50°-60°	522.8	4.8
60°-70°	285.3	2.6
70°-80°	118.9	1.1
80°-90°	35.6	0.3
90°-100°	434.2	4.0
100°-110°	1198.7	10.9
110°-120°	1236.3	11.3
120°-130°	993.5	9.1
130°-140°	780.8	7.1
140°-150°	598.8	5.5
150°-160°	430.4	3.9
160°-170°	263.2	2.4
170°-180°	88.7	0.8
0°-30°	2165.4	19.8
0°-40°	3190.4	29.1
0°-60°	4497.8	41.0
0°-90°	4937.5	45.0
90°-120°	2869.2	26.2
90°-150°	5242.2	47.8
90°-180°	6024.0	55.0
0°-180°	10962.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	3387	3387	3387	3387	3387	
5°	3332	3299	3320	3328	3340	310
15°	2818	2808	2883	2962	3012	787
25°	2154	2159	2271	2370	2474	990
35°	1522	1529	1632	1742	1865	946
45°	912	930	991	1066	1164	712
55°	525	546	578	600	650	476
65°	263	285	311	271	247	273
75°	132	132	120	83	56	141
85°	37	37	34	22	13	40
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	

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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	3387.1	3387.1	3387.1	3387.1	3387.1
2.5°	3395.4	3365.2	3372.8	3372.6	3363.3
5°	3332.1	3298.7	3320.2	3327.9	3339.5
7.5°	3208.4	3183.1	3222.4	3251.5	3275.0
10°	3112.1	3090.3	3140.4	3182.7	3213.2
12.5°	3000.4	2982.1	3044.1	3100.8	3140.7
15°	2817.9	2807.7	2883.2	2961.7	3012.5
17.5°	2622.6	2617.6	2704.3	2795.9	2861.0
20°	2489.4	2487.9	2583.0	2678.4	2753.9
22.5°	2355.0	2358.2	2458.2	2557.3	2643.4
25°	2153.5	2159.3	2270.9	2369.9	2474.5
27.5°	1967.1	1969.8	2085.2	2189.6	2301.2
30°	1839.9	1847.2	1960.3	2068.5	2184.7
32.5°	1712.7	1721.1	1831.9	1943.7	2062.3
35°	1521.9	1529.1	1631.9	1741.7	1865.2
37.5°	1325.1	1335.0	1426.2	1530.0	1651.5
40°	1197.9	1212.4	1293.0	1390.8	1510.0
42.5°	1075.4	1093.4	1168.2	1261.0	1368.5
45°	912.5	930.0	991.3	1066.3	1163.7
47.5°	772.2	792.3	839.4	904.0	987.1
50°	692.6	711.5	755.0	802.9	881.3
52.5°	622.4	641.3	680.1	717.0	783.8
55°	524.6	546.4	578.1	600.1	649.5
57.5°	444.4	465.3	490.4	500.3	530.3
60°	390.9	414.1	436.9	435.8	451.8
62.5°	342.1	361.9	384.6	368.9	369.8
65°	263.1	284.9	310.6	271.4	246.7
67.5°	212.5	217.2	243.7	189.3	159.9
70°	188.7	188.7	196.2	146.6	121.9
72.5°	166.2	166.2	159.3	119.2	93.3
75°	132.3	132.3	120.4	82.6	56.5
77.5°	102.0	100.8	92.1	61.7	41.0
80°	81.7	81.7	74.3	48.7	32.7
82.5°	63.9	63.9	57.7	38.0	24.4
85°	37.2	37.2	34.2	22.1	13.4
87.5°	13.7	14.3	14.3	9.8	8.9
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



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**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)