

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: P519215

Luminaire Tested: **SQ4-WB-075U-100D-835-1D-UNV-STD-W-12**

Issue Date: 4/29/2021

**Test Information**

Test Method: LM-79-2019  
Report Number: P519215  
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1910-536-22, 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-075U-100D-835-1D-UNV-STD-W-12  
Description: CORELITE SQ4 SUSPENDED LED LUMINAIRE WITH WHITE BAFFLE  
DOWNLIGHT 1000 LUMENS PER FOOT  
UPLIGHT 750 LUMENS PER FOOT  
Light Source: 3500K CCT, 80 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

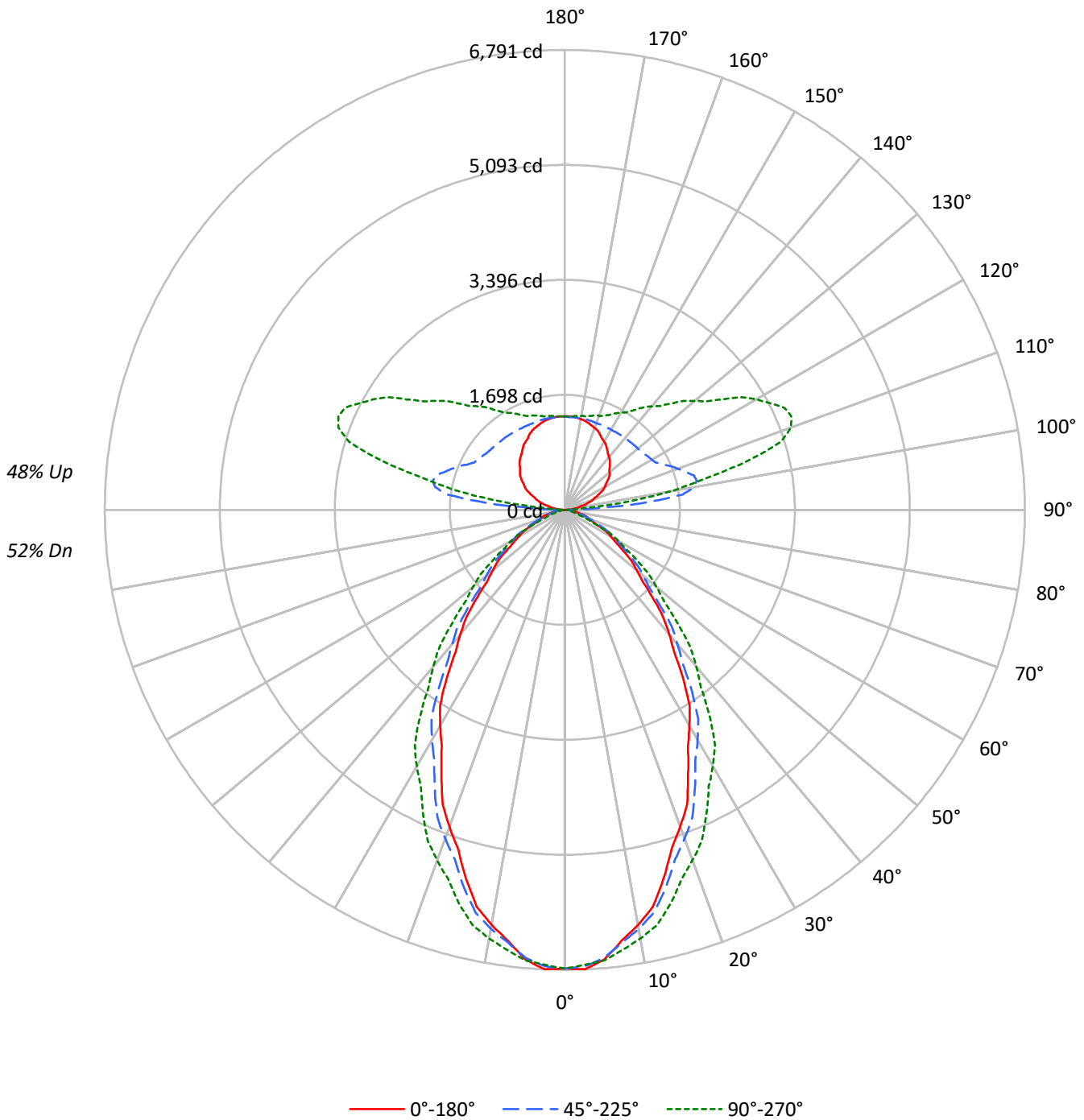
Lumens per Lamp: N/A  
Luminaire Lumens: 18856.0 lumens  
Efficiency: N/A  
Efficacy: 116.3 lumens/watt  
Spacing Criteria (0/90/45): 0.89 / 1 / 1.02  
Luminous Opening: Rectangular (W 0.29' x L: 12' x H: 0')  
CIE Type: General Diffuse

Input Watts (W): 162.2  
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	0
RCR																		
0	108	108	108	108	100	100	100	100	85	85	85	71	71	71	58	58	58	52
1	99	96	92	89	92	89	86	83	76	74	72	64	63	61	53	52	52	46
2	92	85	79	75	85	79	74	70	68	65	62	58	55	53	48	47	45	41
3	84	76	69	64	78	71	65	60	61	57	53	52	49	47	44	42	40	36
4	78	68	61	55	72	64	57	52	55	50	47	48	44	41	40	38	36	32
5	72	61	54	48	67	57	51	46	50	45	41	43	40	37	37	34	32	29
6	67	56	48	43	62	52	45	41	46	41	37	40	36	33	34	31	29	26
7	62	51	43	38	58	48	41	36	42	37	33	37	33	30	32	29	26	24
8	58	46	39	34	54	44	37	33	39	33	30	34	30	27	29	26	24	22
9	54	43	36	31	51	40	34	30	36	31	27	31	27	24	27	24	22	20
10	51	39	33	28	47	37	31	27	33	28	25	29	25	22	26	23	20	18

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

	0°	45°	90°
0°	20833	20833	20833
5°	20573	20500	20619
10°	19437	19614	20069
15°	17943	18360	19183
20°	16294	16907	18026
25°	14615	15412	16794
30°	13068	13923	15517
35°	11428	12253	14005
40°	9618	10382	12124
45°	7938	8623	10122
50°	6627	7225	8433
55°	5626	6200	6964
60°	4808	5375	5558
65°	3828	4520	3590
70°	3394	3528	2191
75°	3143	2861	1343
80°	2896	2632	1158
85°	2622	2414	946



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	621.4	3.3
10°-20°	1616.2	8.6
20°-30°	2093.4	11.1
30°-40°	2049.9	10.9
40°-50°	1569.1	8.3
50°-60°	1045.6	5.5
60°-70°	570.6	3.0
70°-80°	237.7	1.3
80°-90°	70.8	0.4
90°-100°	650.2	3.4
100°-110°	1789.0	9.5
110°-120°	1846.5	9.8
120°-130°	1479.4	7.8
130°-140°	1162.0	6.2
140°-150°	890.5	4.7
150°-160°	640.2	3.4
160°-170°	391.5	2.1
170°-180°	132.0	0.7
0°-30°	4330.9	23.0
0°-40°	6380.8	33.8
0°-60°	8995.5	47.7
0°-90°	9874.7	52.4
90°-120°	4285.7	22.7
90°-150°	7817.7	41.5
90°-180°	8981.0	47.6
0°-180°	18856.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	6774	6774	6774	6774	6774	
5°	6664	6597	6640	6656	6679	620
15°	5636	5615	5766	5923	6025	1574
25°	4307	4319	4542	4740	4949	1981
35°	3044	3058	3264	3483	3730	1892
45°	1825	1860	1983	2133	2327	1423
55°	1049	1093	1156	1200	1299	951
65°	526	570	621	543	493	547
75°	264	264	241	165	113	282
85°	74	74	68	44	27	81
90°	3	12	20	26	26	10
95°	97	355	1150	492	314	102
105°	320	492	1971	3002	2801	337
115°	566	690	1581	3148	3573	559
125°	780	889	1434	2426	2842	696
135°	942	1045	1393	1962	2220	727
145°	1088	1163	1373	1672	1801	682
155°	1232	1272	1364	1503	1546	566
165°	1332	1349	1370	1426	1434	375
175°	1379	1382	1373	1390	1387	131
180°	1379	1379	1379	1379	1379	

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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	6774.1	6774.1	6774.1	6774.1	6774.1
2.5°	6790.8	6730.3	6745.6	6745.2	6726.6
5°	6664.2	6597.3	6640.4	6655.8	6679.0
7.5°	6416.9	6366.3	6444.8	6502.9	6550.0
10°	6224.2	6180.7	6280.7	6365.3	6426.4
12.5°	6000.7	5964.1	6088.1	6201.7	6281.3
15°	5635.7	5615.4	5766.5	5923.4	6025.1
17.5°	5245.1	5235.3	5408.6	5591.7	5721.9
20°	4978.8	4975.9	5166.1	5356.8	5507.9
22.5°	4710.1	4716.5	4916.4	5114.7	5286.7
25°	4307.0	4318.7	4541.9	4739.8	4949.1
27.5°	3934.3	3939.5	4170.3	4379.3	4602.5
30°	3679.9	3694.4	3920.6	4136.9	4369.5
32.5°	3425.4	3442.3	3663.8	3887.4	4124.5
35°	3043.8	3058.3	3263.7	3483.3	3730.4
37.5°	2650.2	2670.0	2852.3	3060.0	3303.0
40°	2395.8	2424.8	2586.0	2781.7	3020.0
42.5°	2150.8	2186.9	2336.3	2521.9	2737.0
45°	1825.1	1859.9	1982.6	2132.7	2327.4
47.5°	1544.5	1584.6	1678.8	1808.0	1974.3
50°	1385.1	1422.9	1510.0	1605.7	1762.6
52.5°	1244.8	1282.6	1360.2	1434.0	1567.7
55°	1049.3	1092.9	1156.3	1200.1	1298.9
57.5°	888.8	930.6	980.9	1000.7	1060.6
60°	781.7	828.2	873.9	871.6	903.6
62.5°	684.3	723.8	769.3	737.8	739.5
65°	526.1	569.7	621.2	542.8	493.4
67.5°	425.1	434.4	487.5	378.5	319.8
70°	377.5	377.5	392.4	293.1	243.7
72.5°	332.3	332.3	318.6	238.4	186.7
75°	264.5	264.5	240.8	165.3	113.0
77.5°	203.9	201.6	184.3	123.3	82.0
80°	163.5	163.5	148.6	97.4	65.4
82.5°	127.8	127.8	115.3	76.1	48.7
85°	74.3	74.3	68.4	44.2	26.8
87.5°	26.7	28.5	27.9	19.5	17.2
90°	2.9	11.5	20.5	26.4	26.4
92.5°	40.5	173.0	299.8	115.1	94.5
95°	96.8	354.9	1149.9	491.7	313.9
97.5°	157.8	393.6	1754.7	1352.0	953.9
100°	202.4	417.5	1944.8	1963.0	1601.6
102.5°	244.6	446.0	1994.1	2435.3	2103.8
105°	319.7	491.8	1971.2	3002.1	2801.3
107.5°	391.3	548.5	1859.1	3279.6	3339.3
110°	442.9	586.3	1774.6	3348.7	3555.2



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**CANDELA DISTRIBUTION (continued):**

	0°	22.5°	45°	67.5°	90°
112.5°	489.9	628.7	1690.2	3304.2	3618.5
115°	566.1	689.5	1581.0	3148.3	3572.8
117.5°	638.9	752.4	1511.8	2929.5	3409.7
120°	683.5	792.4	1481.3	2765.6	3261.8
122.5°	723.4	832.3	1460.2	2621.9	3092.9
125°	780.3	889.2	1434.4	2426.5	2842.4
127.5°	834.2	938.1	1417.4	2263.4	2628.2
130°	862.4	968.5	1408.0	2166.5	2499.2
132.5°	895.2	1001.4	1400.9	2081.3	2381.8
135°	941.6	1044.8	1393.3	1962.4	2220.5
137.5°	985.0	1080.8	1386.9	1866.3	2079.1
140°	1017.9	1106.8	1384.5	1802.5	1994.6
142.5°	1046.0	1128.0	1379.8	1745.5	1910.2
145°	1088.3	1162.8	1372.8	1672.0	1801.0
147.5°	1133.4	1197.7	1369.3	1606.9	1710.1
150°	1161.6	1218.9	1366.9	1571.1	1651.4
152.5°	1187.4	1240.2	1364.6	1540.3	1606.9
155°	1232.0	1272.1	1364.0	1502.8	1545.8
157.5°	1264.3	1296.9	1364.0	1472.0	1501.8
160°	1287.7	1313.5	1364.0	1455.4	1478.4
162.5°	1306.5	1327.7	1366.3	1441.3	1459.6
165°	1331.7	1348.9	1369.8	1425.8	1434.4
167.5°	1349.3	1362.5	1372.8	1412.7	1415.0
170°	1361.0	1369.7	1372.8	1408.0	1408.0
172.5°	1370.4	1374.5	1372.8	1400.9	1398.6
175°	1378.6	1381.5	1372.8	1390.3	1387.4
177.5°	1381.0	1381.0	1371.6	1385.6	1381.0
180°	1378.6	1378.6	1378.6	1378.6	1378.6

(END OF REPORT)