

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: P519195

Luminaire Tested: **SQ4-WB-075U-075D-840-1D-UNV-STD-W-12**

Issue Date: 4/29/2021

**Test Information**

Test Method: LM-79-2019  
Report Number: P519195  
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-075D-840-1D-UNV-STD-W-12  
Description: CORELITE SQ4 SUSPENDED LED LUMINAIRE WITH WHITE BAFFLE  
DOWNLIGHT 750 LUMENS PER FOOT  
UPLIGHT 750 LUMENS PER FOOT  
Light Source: 4000K CCT, 80 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

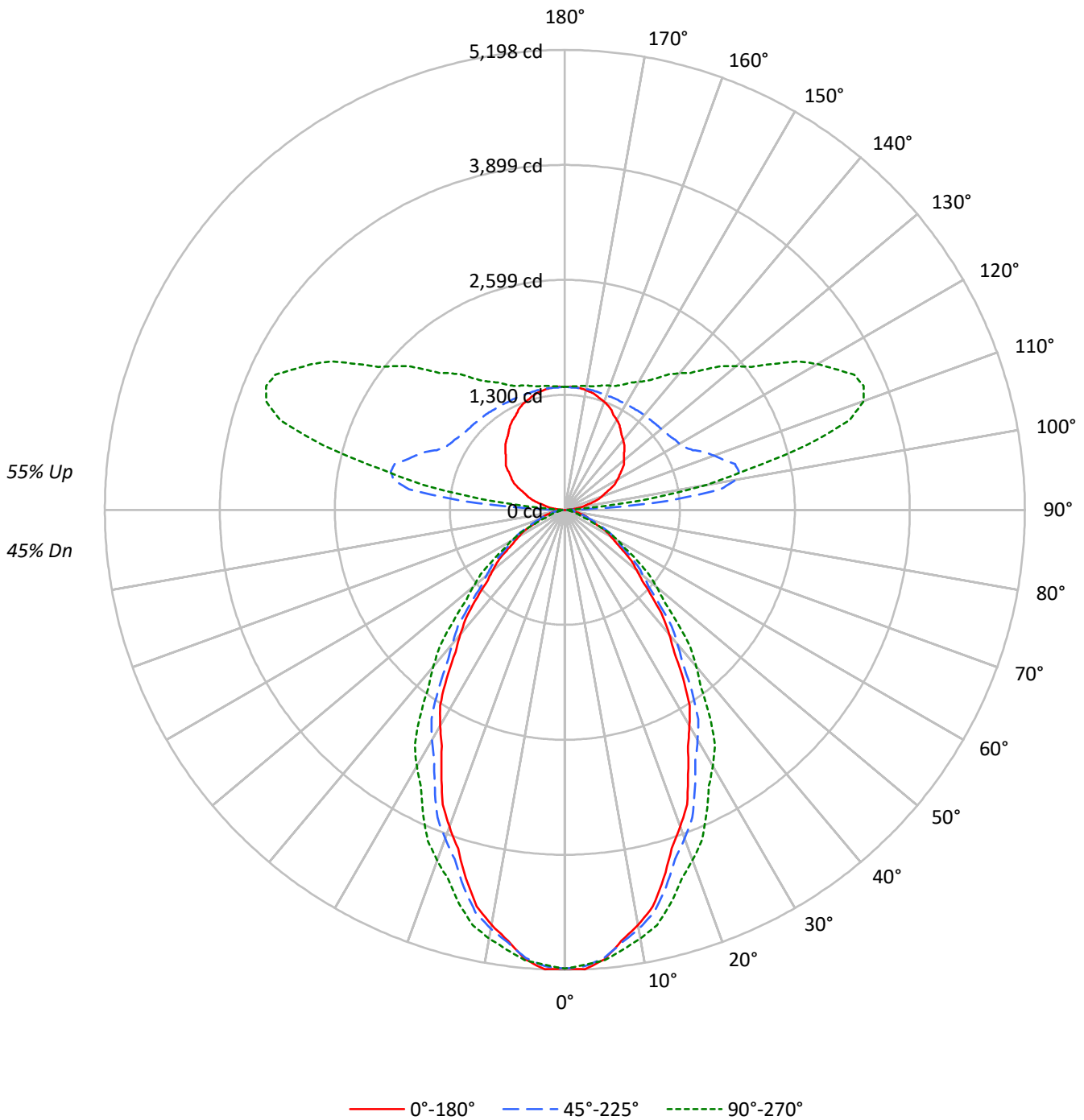
Lumens per Lamp: N/A  
Luminaire Lumens: 16630.7 lumens  
Efficiency: N/A  
Efficacy: 124.7 lumens/watt  
Spacing Criteria (0/90/45): 0.89 / 1 / 1.02  
Luminous Opening: Rectangular (W 0.29' x L: 12' x H: 0')  
CIE Type: General Diffuse

Input Watts (W): 133.4  
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	66	66	66	52	52	52	45
1	98	94	90	87	90	86	83	81	72	70	68	59	58	57	47	47	46	40
2	90	83	78	73	82	77	72	68	65	61	58	53	51	49	43	42	40	36
3	83	74	67	62	76	69	63	58	58	54	50	48	45	43	39	37	36	31
4	76	66	59	54	70	61	55	50	52	48	44	44	40	38	36	34	32	28
5	70	60	52	47	65	55	49	44	47	42	39	40	36	33	33	30	28	25
6	65	54	47	41	60	50	44	39	43	38	34	36	33	30	30	28	26	23
7	61	49	42	37	56	46	39	35	39	34	31	34	30	27	28	25	23	21
8	56	45	38	33	52	42	36	31	36	31	28	31	27	24	26	23	21	19
9	53	41	34	29	49	39	32	28	34	29	25	29	25	22	24	21	19	17
10	49	38	31	27	46	36	30	25	31	26	23	27	23	20	23	20	18	16

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

	0°	45°	90°
0°	15946	15946	15946
5°	15747	15691	15782
10°	14878	15012	15361
15°	13734	14053	14683
20°	12472	12941	13797
25°	11187	11797	12854
30°	10002	10657	11877
35°	8747	9379	10720
40°	7362	7947	9280
45°	6076	6600	7748
50°	5072	5530	6455
55°	4306	4745	5331
60°	3681	4114	4254
65°	2930	3460	2749
70°	2598	2700	1678
75°	2406	2190	1028
80°	2216	2015	887
85°	2008	1845	723



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	475.6	2.9
10°-20°	1237.0	7.4
20°-30°	1602.3	9.6
30°-40°	1569.0	9.4
40°-50°	1201.0	7.2
50°-60°	800.3	4.8
60°-70°	436.7	2.6
70°-80°	182.0	1.1
80°-90°	55.1	0.3
90°-100°	656.8	3.9
100°-110°	1807.0	10.9
110°-120°	1865.1	11.2
120°-130°	1494.3	9.0
130°-140°	1173.7	7.1
140°-150°	899.4	5.4
150°-160°	646.7	3.9
160°-170°	395.4	2.4
170°-180°	133.3	0.8
0°-30°	3314.9	19.9
0°-40°	4884.0	29.4
0°-60°	6885.3	41.4
0°-90°	7559.0	45.5
90°-120°	4328.8	26.0
90°-150°	7896.3	47.5
90°-180°	9072.0	54.5
0°-180°	16630.7	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	5185	5185	5185	5185	5185	
5°	5101	5050	5083	5094	5112	475
15°	4314	4298	4414	4534	4612	1205
25°	3297	3306	3476	3628	3788	1516
35°	2330	2341	2498	2666	2855	1448
45°	1397	1424	1518	1632	1781	1089
55°	803	836	885	919	994	728
65°	403	436	476	416	378	419
75°	202	202	184	126	86	216
85°	57	57	52	34	20	62
90°	3	12	21	27	27	9
95°	98	358	1161	497	317	103
105°	323	497	1991	3032	2830	340
115°	572	696	1597	3180	3609	564
125°	788	898	1449	2451	2871	703
135°	951	1055	1407	1982	2243	734
145°	1099	1174	1387	1689	1819	689
155°	1244	1285	1378	1518	1561	572
165°	1345	1362	1384	1440	1449	379
175°	1392	1395	1387	1404	1401	132
180°	1392	1392	1392	1392	1392	

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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	5185.0	5185.0	5185.0	5185.0	5185.0
2.5°	5197.7	5151.5	5163.2	5162.8	5148.6
5°	5100.8	5049.7	5082.6	5094.4	5112.2
7.5°	4911.5	4872.8	4932.9	4977.4	5013.5
10°	4764.1	4730.7	4807.3	4872.1	4918.8
12.5°	4593.0	4565.0	4659.9	4746.8	4807.8
15°	4313.6	4298.1	4413.7	4533.8	4611.7
17.5°	4014.7	4007.1	4139.8	4279.9	4379.6
20°	3810.8	3808.6	3954.2	4100.1	4215.8
22.5°	3605.2	3610.1	3763.0	3914.8	4046.5
25°	3296.7	3305.5	3476.4	3627.9	3788.1
27.5°	3011.3	3015.4	3192.0	3352.0	3522.8
30°	2816.6	2827.7	3000.9	3166.5	3344.4
32.5°	2621.8	2634.8	2804.3	2975.4	3157.0
35°	2329.7	2340.8	2498.1	2666.2	2855.3
37.5°	2028.5	2043.6	2183.2	2342.1	2528.1
40°	1833.7	1856.0	1979.4	2129.1	2311.5
42.5°	1646.3	1673.9	1788.2	1930.3	2094.9
45°	1396.9	1423.6	1517.5	1632.4	1781.4
47.5°	1182.2	1212.9	1285.0	1383.9	1511.1
50°	1060.2	1089.1	1155.8	1229.0	1349.1
52.5°	952.8	981.7	1041.1	1097.6	1199.9
55°	803.1	836.5	885.0	918.6	994.2
57.5°	680.3	712.3	750.8	765.9	811.8
60°	598.4	633.9	668.9	667.2	691.6
62.5°	523.7	554.0	588.8	564.7	566.1
65°	402.7	436.1	475.5	415.5	377.7
67.5°	325.3	332.5	373.1	289.7	244.8
70°	288.9	288.9	300.3	224.4	186.6
72.5°	254.4	254.4	243.9	182.5	142.9
75°	202.5	202.5	184.3	126.5	86.5
77.5°	156.1	154.3	141.1	94.4	62.8
80°	125.1	125.1	113.8	74.5	50.1
82.5°	97.8	97.8	88.3	58.2	37.3
85°	56.9	56.9	52.3	33.8	20.5
87.5°	20.6	22.4	22.3	16.2	14.4
90°	3.0	11.7	20.7	26.7	26.7
92.5°	40.9	174.7	302.8	116.3	95.4
95°	97.8	358.5	1161.4	496.6	317.0
97.5°	159.4	397.5	1772.4	1365.6	963.5
100°	204.4	421.7	1964.3	1982.7	1617.7
102.5°	247.1	450.5	2014.1	2459.8	2124.9
105°	322.9	496.8	1991.0	3032.3	2829.5
107.5°	395.2	554.0	1877.8	3312.6	3372.9
110°	447.4	592.2	1792.5	3382.3	3590.9

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**CANDELA DISTRIBUTION (continued):**

	0°	22.5°	45°	67.5°	90°
112.5°	494.8	635.0	1707.2	3337.4	3654.9
115°	571.8	696.4	1597.0	3180.0	3608.7
117.5°	645.3	760.0	1527.0	2959.0	3444.0
120°	690.3	800.4	1496.2	2793.5	3294.6
122.5°	730.6	840.7	1474.9	2648.3	3124.0
125°	788.1	898.2	1448.8	2450.9	2871.0
127.5°	842.6	947.5	1431.6	2286.2	2654.7
130°	871.1	978.3	1422.2	2188.3	2524.3
132.5°	904.3	1011.4	1415.0	2102.2	2405.8
135°	951.1	1055.4	1407.3	1982.1	2242.8
137.5°	994.9	1091.7	1400.8	1885.1	2100.0
140°	1028.1	1117.9	1398.4	1820.6	2014.7
142.5°	1056.5	1139.4	1393.7	1763.1	1929.4
145°	1099.2	1174.5	1386.6	1688.8	1819.2
147.5°	1144.8	1209.7	1383.0	1623.0	1727.3
150°	1173.3	1231.2	1380.7	1586.9	1668.1
152.5°	1199.3	1252.7	1378.3	1555.8	1623.0
155°	1244.4	1284.9	1377.7	1517.9	1561.4
157.5°	1277.0	1310.0	1377.7	1486.8	1517.0
160°	1300.7	1326.7	1377.7	1470.1	1493.3
162.5°	1319.6	1341.1	1380.1	1455.8	1474.3
165°	1345.1	1362.5	1383.6	1440.1	1448.8
167.5°	1362.9	1376.2	1386.6	1426.9	1429.3
170°	1374.7	1383.4	1386.6	1422.2	1422.2
172.5°	1384.2	1388.3	1386.6	1415.0	1412.7
175°	1392.5	1395.4	1386.6	1404.3	1401.4
177.5°	1394.9	1394.9	1385.4	1399.5	1394.9
180°	1392.5	1392.5	1392.5	1392.5	1392.5

(END OF REPORT)