

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: P519199

Luminaire Tested: **SQ4-WB-075U-075D-930-1D-UNV-STD-W-12**

Issue Date: 4/29/2021

Test Information

Test Method: LM-79-2019
Report Number: P519199
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-930-1D-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: 3000K CCT, 90 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 13102.2 lumens
Efficiency: N/A
Efficacy: 98.2 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

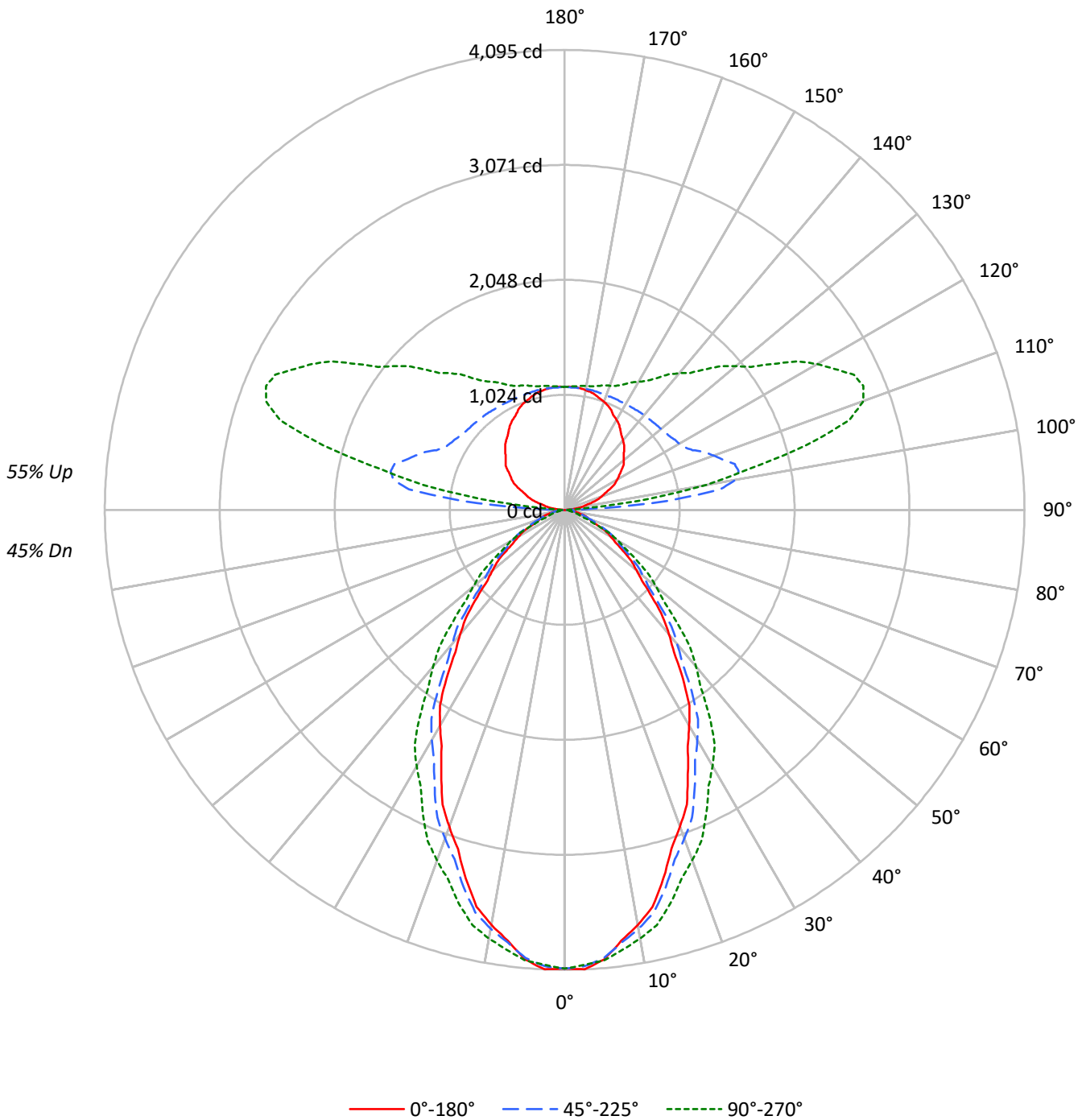
Input Watts (W): 133.4
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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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°	12563	12563	12563
5°	12406	12362	12433
10°	11721	11827	12102
15°	10820	11071	11568
20°	9826	10195	10870
25°	8813	9294	10127
30°	7880	8396	9357
35°	6891	7389	8445
40°	5800	6260	7311
45°	4786	5200	6104
50°	3996	4356	5085
55°	3392	3738	4200
60°	2899	3241	3352
65°	2309	2726	2165
70°	2047	2127	1322
75°	1895	1725	809
80°	1746	1587	698
85°	1581	1454	568



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	374.7	2.9
10°-20°	974.6	7.4
20°-30°	1262.3	9.6
30°-40°	1236.1	9.4
40°-50°	946.2	7.2
50°-60°	630.5	4.8
60°-70°	344.1	2.6
70°-80°	143.4	1.1
80°-90°	43.4	0.3
90°-100°	517.4	3.9
100°-110°	1423.6	10.9
110°-120°	1469.4	11.2
120°-130°	1177.3	9.0
130°-140°	924.7	7.1
140°-150°	708.6	5.4
150°-160°	509.5	3.9
160°-170°	311.5	2.4
170°-180°	105.0	0.8
0°-30°	2611.6	19.9
0°-40°	3847.7	29.4
0°-60°	5424.4	41.4
0°-90°	5955.2	45.5
90°-120°	3410.4	26.0
90°-150°	6220.9	47.5
90°-180°	7147.0	54.5
0°-180°	13102.2	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	4085	4085	4085	4085	4085	
5°	4019	3978	4004	4014	4028	374
15°	3398	3386	3477	3572	3633	949
25°	2597	2604	2739	2858	2984	1194
35°	1835	1844	1968	2100	2250	1141
45°	1100	1122	1196	1286	1404	858
55°	633	659	697	724	783	574
65°	317	344	375	327	298	330
75°	160	160	145	100	68	170
85°	45	45	41	27	16	49
90°	2	9	16	21	21	7
95°	77	282	915	391	250	81
105°	254	391	1569	2389	2229	268
115°	450	549	1258	2505	2843	445
125°	621	708	1141	1931	2262	554
135°	749	831	1109	1562	1767	578
145°	866	925	1092	1330	1433	543
155°	980	1012	1085	1196	1230	450
165°	1060	1073	1090	1135	1141	299
175°	1097	1099	1092	1106	1104	104
180°	1097	1097	1097	1097	1097	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	4084.9	4084.9	4084.9	4084.9	4084.9
2.5°	4094.9	4058.5	4067.7	4067.4	4056.2
5°	4018.6	3978.3	4004.2	4013.5	4027.5
7.5°	3869.4	3838.9	3886.3	3921.3	3949.7
10°	3753.3	3727.0	3787.3	3838.4	3875.2
12.5°	3618.5	3596.4	3671.2	3739.7	3787.7
15°	3398.4	3386.1	3477.3	3571.9	3633.2
17.5°	3162.9	3156.9	3261.5	3371.9	3450.4
20°	3002.3	3000.5	3115.2	3230.2	3321.3
22.5°	2840.2	2844.1	2964.6	3084.2	3188.0
25°	2597.2	2604.2	2738.8	2858.2	2984.3
27.5°	2372.4	2375.6	2514.7	2640.8	2775.4
30°	2219.0	2227.8	2364.2	2494.6	2634.8
32.5°	2065.6	2075.7	2209.3	2344.1	2487.1
35°	1835.4	1844.2	1968.1	2100.5	2249.5
37.5°	1598.1	1610.0	1720.0	1845.2	1991.7
40°	1444.7	1462.2	1559.4	1677.4	1821.1
42.5°	1297.0	1318.7	1408.8	1520.8	1650.4
45°	1100.5	1121.6	1195.5	1286.0	1403.5
47.5°	931.3	955.5	1012.3	1090.3	1190.5
50°	835.3	858.0	910.5	968.3	1062.9
52.5°	750.7	773.4	820.2	864.7	945.3
55°	632.7	659.0	697.2	723.7	783.3
57.5°	535.9	561.2	591.5	603.4	639.5
60°	471.4	499.4	527.0	525.6	544.9
62.5°	412.6	436.4	463.9	444.9	445.9
65°	317.3	343.5	374.6	327.3	297.5
67.5°	256.3	261.9	294.0	228.3	192.9
70°	227.6	227.6	236.6	176.8	147.0
72.5°	200.4	200.4	192.1	143.8	112.6
75°	159.5	159.5	145.2	99.7	68.1
77.5°	123.0	121.6	111.1	74.4	49.5
80°	98.6	98.6	89.6	58.7	39.4
82.5°	77.1	77.1	69.5	45.9	29.4
85°	44.8	44.8	41.2	26.6	16.1
87.5°	16.2	17.6	17.6	12.8	11.4
90°	2.3	9.2	16.3	21.0	21.0
92.5°	32.2	137.7	238.6	91.6	75.2
95°	77.0	282.4	915.0	391.3	249.8
97.5°	125.6	313.2	1396.3	1075.9	759.1
100°	161.1	332.2	1547.6	1562.0	1274.5
102.5°	194.7	354.9	1586.8	1937.9	1674.1
105°	254.4	391.4	1568.6	2388.9	2229.1
107.5°	311.4	436.5	1479.4	2609.8	2657.2
110°	352.5	466.6	1412.2	2664.7	2829.0

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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	389.8	500.3	1345.0	2629.3	2879.5
115°	450.5	548.6	1258.1	2505.3	2843.0
117.5°	508.4	598.8	1203.0	2331.2	2713.3
120°	543.9	630.6	1178.8	2200.8	2595.6
122.5°	575.6	662.3	1162.0	2086.4	2461.2
125°	620.9	707.6	1141.4	1930.9	2261.8
127.5°	663.8	746.5	1127.9	1801.1	2091.4
130°	686.3	770.7	1120.4	1724.0	1988.7
132.5°	712.4	796.8	1114.8	1656.2	1895.4
135°	749.3	831.4	1108.7	1561.6	1767.0
137.5°	783.8	860.0	1103.6	1485.1	1654.5
140°	810.0	880.7	1101.7	1434.3	1587.2
142.5°	832.4	897.6	1098.0	1389.0	1520.0
145°	866.0	925.3	1092.4	1330.5	1433.2
147.5°	901.9	953.1	1089.6	1278.7	1360.8
150°	924.3	970.0	1087.7	1250.2	1314.1
152.5°	944.9	986.9	1085.9	1225.7	1278.7
155°	980.4	1012.3	1085.4	1195.9	1230.1
157.5°	1006.0	1032.1	1085.4	1171.4	1195.1
160°	1024.7	1045.2	1085.4	1158.2	1176.4
162.5°	1039.6	1056.5	1087.3	1146.9	1161.5
165°	1059.7	1073.4	1090.1	1134.6	1141.4
167.5°	1073.7	1084.2	1092.4	1124.2	1126.0
170°	1083.1	1089.9	1092.4	1120.4	1120.4
172.5°	1090.5	1093.7	1092.4	1114.8	1112.9
175°	1097.1	1099.3	1092.4	1106.4	1104.1
177.5°	1098.9	1098.9	1091.5	1102.6	1098.9
180°	1097.1	1097.1	1097.1	1097.1	1097.1

(END OF REPORT)