

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: P519177

Luminaire Tested: **SQ4-WB-075U-050D-930-1D-UNV-STD-W-6**

Issue Date: 4/29/2021

Test Information

Test Method: LM-79-2019
Report Number: P519177
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-050D-930-1D-UNV-STD-W-6
Description: CORELITE SQ4 SUSPENDED LED LUMINAIRE WITH WHITE BAFFLE
DOWNLIGHT 500 LUMENS PER FOOT
UPLIGHT 750 LUMENS PER FOOT
Light Source: 3000K CCT, 90 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

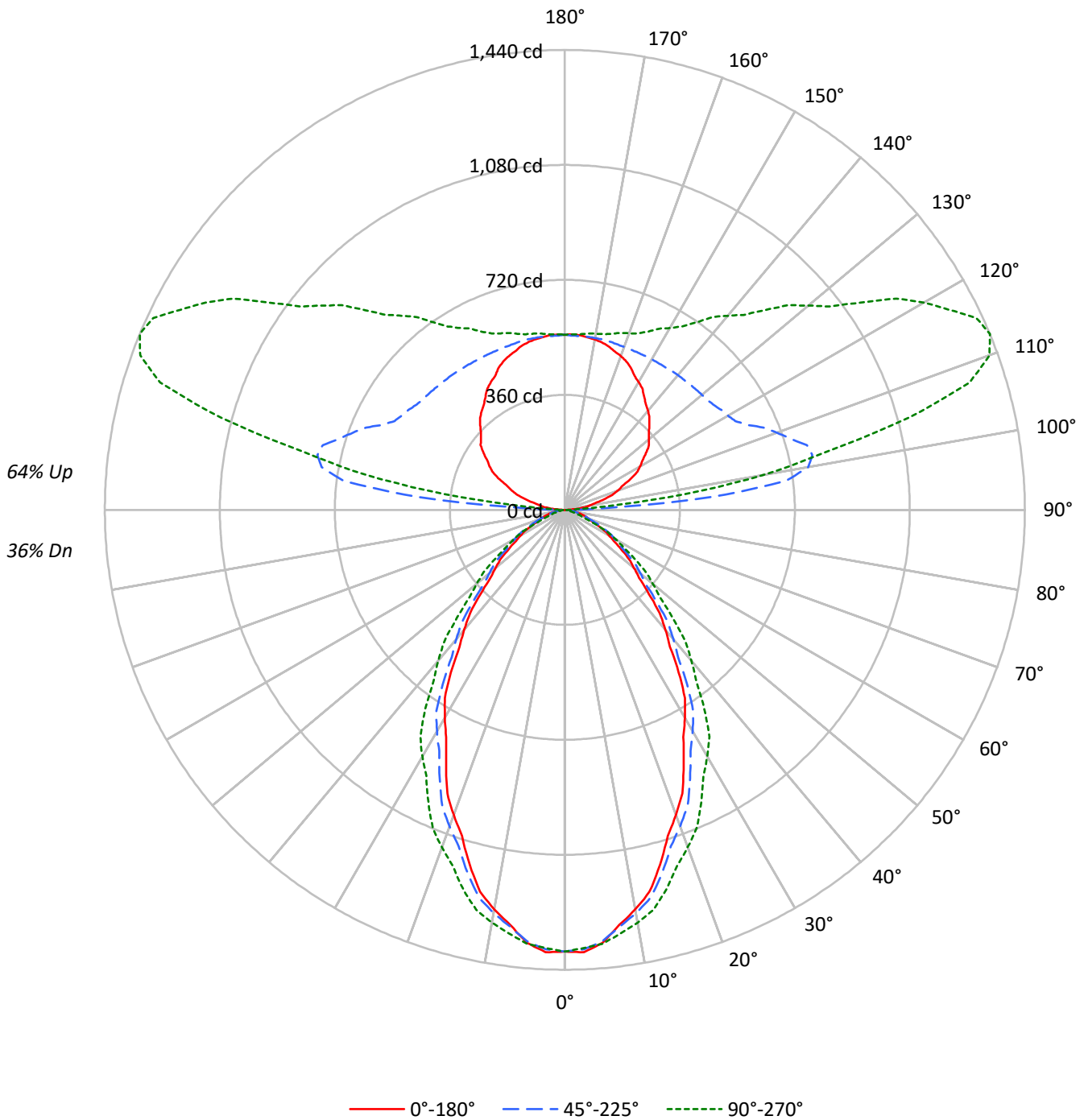
Lumens per Lamp: N/A
Luminaire Lumens: 5590.1 lumens
Efficiency: N/A
Efficacy: 102.9 lumens/watt
Spacing Criteria (0/90/45): 0.89 / 1 / 1.02
Luminous Opening: Rectangular (W 0.29' x L: 6' x H: 0')
CIE Type: Semi-Indirect

Input Watts (W): 54.3
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	104	104	104	104	94	94	94	94	76	76	76	59	59	59	43	43	43	36
1	95	92	88	85	86	83	80	78	67	65	64	53	52	50	40	39	38	32
2	88	81	75	71	79	74	69	65	60	57	54	47	45	43	36	35	33	28
3	80	72	65	60	73	66	60	55	54	50	46	43	40	38	33	31	29	25
4	74	64	57	51	67	59	52	48	48	44	40	39	36	33	30	28	26	22
5	68	58	50	45	62	53	46	41	44	39	35	35	32	29	27	25	23	20
6	63	52	44	39	57	48	41	36	40	35	31	32	29	26	25	23	21	18
7	58	47	40	35	53	43	37	32	36	31	28	29	26	23	23	21	19	16
8	54	43	36	31	49	40	33	29	33	28	25	27	24	21	21	19	17	15
9	51	39	32	28	46	36	30	26	31	26	23	25	22	19	20	18	16	14
10	47	36	29	25	43	33	27	23	28	24	20	23	20	18	19	16	15	13

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	8507	8507	8507
5°	8400	8370	8419
10°	7936	8008	8194
15°	7326	7496	7832
20°	6653	6904	7360
25°	5968	6293	6857
30°	5335	5685	6335
35°	4666	5003	5719
40°	3927	4239	4950
45°	3241	3521	4133
50°	2706	2950	3443
55°	2297	2532	2844
60°	1963	2195	2270
65°	1563	1845	1466
70°	1387	1440	896
75°	1283	1169	549
80°	1183	1073	475
85°	1073	988	388



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	126.9	2.3
10°-20°	329.9	5.9
20°-30°	427.4	7.6
30°-40°	418.5	7.5
40°-50°	320.3	5.7
50°-60°	213.5	3.8
60°-70°	116.5	2.1
70°-80°	48.5	0.9
80°-90°	15.1	0.3
90°-100°	258.7	4.6
100°-110°	711.8	12.7
110°-120°	734.7	13.1
120°-130°	588.6	10.5
130°-140°	462.3	8.3
140°-150°	354.3	6.3
150°-160°	254.7	4.6
160°-170°	155.8	2.8
170°-180°	52.5	0.9
0°-30°	884.2	15.8
0°-40°	1302.7	23.3
0°-60°	1836.5	32.9
0°-90°	2016.6	36.1
90°-120°	1705.2	30.5
90°-150°	3110.5	55.6
90°-180°	3573.0	63.9
0°-180°	5590.1	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1383	1383	1383	1383	1383	
5°	1360	1347	1356	1359	1364	127
15°	1150	1146	1177	1209	1230	321
25°	879	882	927	968	1010	404
35°	621	624	666	711	762	386
45°	373	380	405	435	475	291
55°	214	223	236	245	265	194
65°	107	116	127	111	101	112
75°	54	54	49	34	23	58
85°	15	15	14	9	6	17
90°	1	5	8	10	10	3
95°	38	141	458	196	125	41
105°	127	196	784	1194	1115	134
115°	225	274	629	1253	1422	222
125°	310	354	571	965	1131	277
135°	375	416	554	781	884	289
145°	433	463	546	665	717	272
155°	490	506	543	598	615	225
165°	530	537	545	567	571	149
175°	548	550	546	553	552	52
180°	548	548	548	548	548	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1383.0	1383.0	1383.0	1383.0	1383.0
2.5°	1386.3	1374.0	1377.1	1377.0	1373.2
5°	1360.5	1346.9	1355.6	1358.8	1363.5
7.5°	1310.0	1299.7	1315.7	1327.6	1337.2
10°	1270.7	1261.8	1282.2	1299.5	1312.0
12.5°	1225.1	1217.6	1242.9	1266.1	1282.3
15°	1150.5	1146.4	1177.2	1209.3	1230.0
17.5°	1070.8	1068.8	1104.2	1141.6	1168.1
20°	1016.4	1015.8	1054.7	1093.6	1124.4
22.5°	961.6	962.9	1003.7	1044.2	1079.3
25°	879.3	881.7	927.2	967.6	1010.4
27.5°	803.2	804.3	851.4	894.0	939.6
30°	751.2	754.2	800.4	844.6	892.0
32.5°	699.3	702.7	748.0	793.6	842.0
35°	621.4	624.4	666.3	711.1	761.6
37.5°	541.0	545.1	582.3	624.7	674.3
40°	489.1	495.0	527.9	567.9	616.5
42.5°	439.1	446.5	477.0	514.9	558.8
45°	372.6	379.7	404.8	435.4	475.1
47.5°	315.3	323.5	342.7	369.1	403.1
50°	282.8	290.5	308.3	327.8	359.8
52.5°	254.1	261.9	277.7	292.7	320.0
55°	214.2	223.1	236.1	245.0	265.2
57.5°	181.4	190.0	200.3	204.3	216.5
60°	159.6	169.1	178.4	177.9	184.5
62.5°	139.7	147.8	157.0	150.6	151.0
65°	107.4	116.3	126.8	110.8	100.7
67.5°	86.8	88.7	99.5	77.3	65.3
70°	77.1	77.1	80.1	59.8	49.8
72.5°	67.8	67.8	65.1	48.7	38.1
75°	54.0	54.0	49.2	33.7	23.1
77.5°	41.6	41.2	37.6	25.2	16.7
80°	33.4	33.4	30.3	19.9	13.4
82.5°	26.1	26.1	23.5	15.5	10.0
85°	15.2	15.2	14.0	9.0	5.5
87.5°	5.6	6.3	6.5	5.0	4.5
90°	1.2	4.6	8.2	10.5	10.5
92.5°	16.1	68.8	119.3	45.8	37.6
95°	38.5	141.2	457.5	195.6	124.9
97.5°	62.8	156.6	698.2	537.9	379.5
100°	80.5	166.1	773.8	781.0	637.2
102.5°	97.3	177.4	793.4	969.0	837.0
105°	127.2	195.7	784.3	1194.5	1114.6
107.5°	155.7	218.2	739.7	1304.9	1328.6
110°	176.2	233.3	706.1	1332.4	1414.5



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	194.9	250.1	672.5	1314.7	1439.7
115°	225.2	274.3	629.1	1252.6	1421.5
117.5°	254.2	299.4	601.5	1165.6	1356.6
120°	271.9	315.3	589.4	1100.4	1297.8
122.5°	287.8	331.2	581.0	1043.2	1230.6
125°	310.4	353.8	570.7	965.4	1130.9
127.5°	331.9	373.2	563.9	900.6	1045.7
130°	343.1	385.3	560.2	862.0	994.4
132.5°	356.2	398.4	557.4	828.1	947.7
135°	374.6	415.7	554.4	780.8	883.5
137.5°	391.9	430.0	551.8	742.6	827.2
140°	405.0	440.4	550.9	717.2	793.6
142.5°	416.2	448.8	549.0	694.5	760.0
145°	433.0	462.7	546.2	665.2	716.6
147.5°	451.0	476.5	544.8	639.3	680.4
150°	462.2	485.0	543.9	625.1	657.1
152.5°	472.4	493.4	542.9	612.9	639.3
155°	490.2	506.2	542.7	597.9	615.1
157.5°	503.0	516.0	542.7	585.7	597.6
160°	512.4	522.6	542.7	579.1	588.2
162.5°	519.8	528.3	543.6	573.4	580.7
165°	529.9	536.7	545.0	567.3	570.7
167.5°	536.9	542.1	546.2	562.1	563.0
170°	541.5	545.0	546.2	560.2	560.2
172.5°	545.3	546.9	546.2	557.4	556.5
175°	548.5	549.7	546.2	553.2	552.0
177.5°	549.5	549.5	545.7	551.3	549.5
180°	548.5	548.5	548.5	548.5	548.5

(END OF REPORT)