

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: P519176

Luminaire Tested: **SQ4-WB-075U-050D-930-1D-UNV-STD-W-4**

Issue Date: 4/29/2021

Test Information

Test Method: LM-79-2019
Report Number: P519176
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-4
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

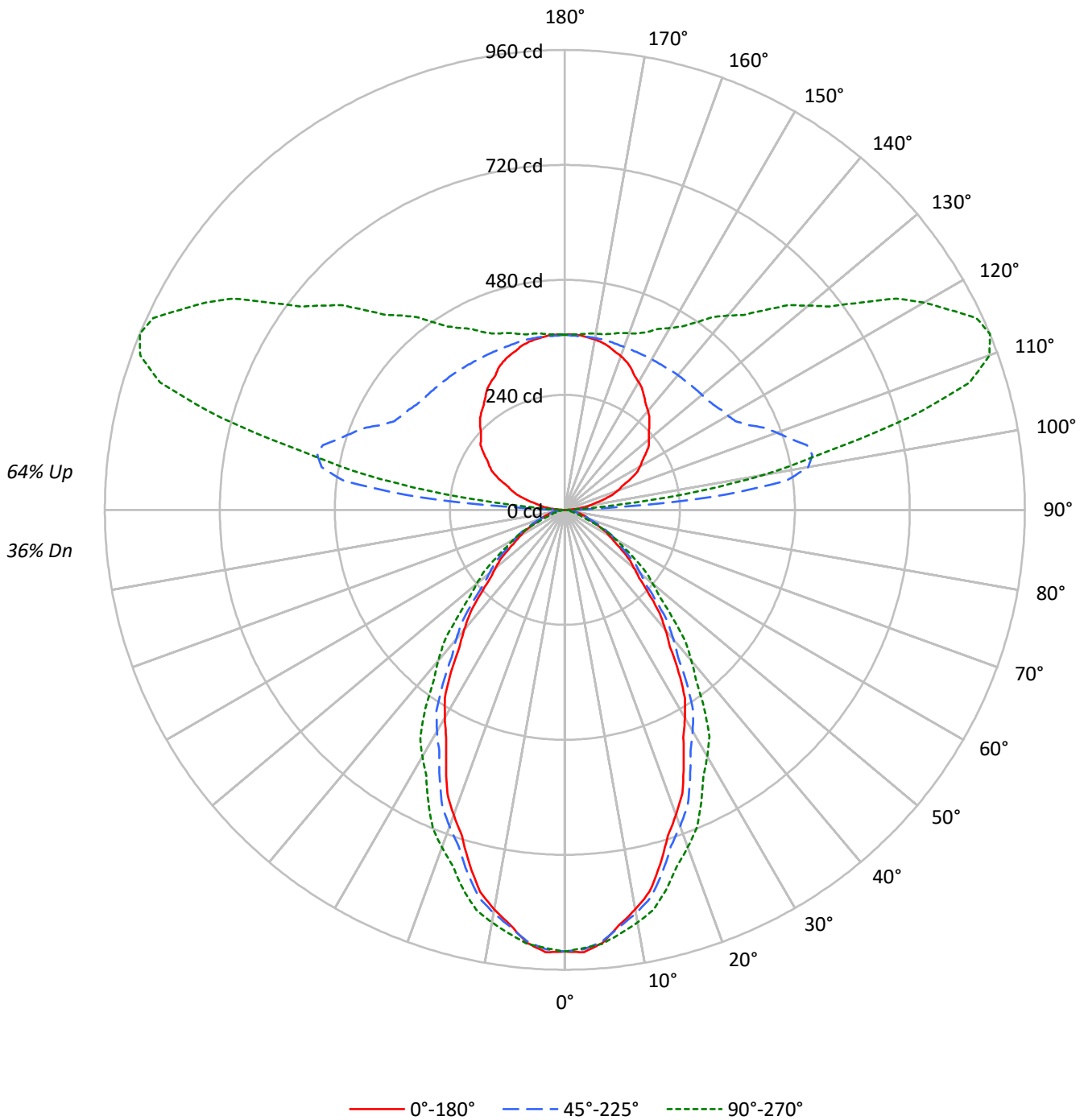
Lumens per Lamp: N/A
Luminaire Lumens: 3726.7 lumens
Efficiency: N/A
Efficacy: 107.4 lumens/watt
Spacing Criteria (0/90/45): 0.89 / 1 / 1.02
Luminous Opening: Rectangular (W 0.29' x L: 4' x H: 0')
CIE Type: Semi-Indirect

Input Watts (W): 34.7
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	6903	7360
25°	5968	6293	6857
30°	5335	5685	6336
35°	4666	5003	5718
40°	3928	4239	4950
45°	3241	3520	4134
50°	2706	2950	3443
55°	2297	2532	2844
60°	1963	2194	2270
65°	1563	1847	1467
70°	1387	1440	896
75°	1283	1169	549
80°	1185	1073	473
85°	1069	984	381



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	84.6	2.3
10°-20°	220.0	5.9
20°-30°	284.9	7.6
30°-40°	279.0	7.5
40°-50°	213.6	5.7
50°-60°	142.3	3.8
60°-70°	77.7	2.1
70°-80°	32.4	0.9
80°-90°	10.1	0.3
90°-100°	172.5	4.6
100°-110°	474.5	12.7
110°-120°	489.8	13.1
120°-130°	392.4	10.5
130°-140°	308.2	8.3
140°-150°	236.2	6.3
150°-160°	169.8	4.6
160°-170°	103.8	2.8
170°-180°	35.0	0.9
0°-30°	589.4	15.8
0°-40°	868.4	23.3
0°-60°	1224.3	32.9
0°-90°	1344.4	36.1
90°-120°	1136.8	30.5
90°-150°	2073.6	55.6
90°-180°	2382.0	63.9
0°-180°	3726.7	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	922	922	922	922	922	
5°	907	898	904	906	909	84
15°	767	764	785	806	820	214
25°	586	588	618	645	674	270
35°	414	416	444	474	508	258
45°	248	253	270	290	317	194
55°	143	149	157	163	177	129
65°	72	78	85	74	67	74
75°	36	36	33	22	15	38
85°	10	10	9	6	4	11
90°	1	3	5	7	7	2
95°	26	94	305	130	83	27
105°	85	130	523	796	743	89
115°	150	183	419	835	948	148
125°	207	236	380	644	754	185
135°	250	277	370	520	589	193
145°	289	308	364	444	478	181
155°	327	337	362	399	410	150
165°	353	358	363	378	380	100
175°	366	366	364	369	368	35
180°	366	366	366	366	366	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	922.0	922.0	922.0	922.0	922.0
2.5°	924.2	916.0	918.1	918.0	915.5
5°	907.0	897.9	903.8	905.9	909.0
7.5°	873.3	866.5	877.1	885.1	891.5
10°	847.1	841.2	854.8	866.3	874.6
12.5°	816.7	811.7	828.6	844.1	854.9
15°	767.0	764.3	784.8	806.2	820.0
17.5°	713.9	712.5	736.1	761.0	778.8
20°	677.6	677.2	703.1	729.1	749.6
22.5°	641.0	641.9	669.1	696.1	719.5
25°	586.2	587.8	618.2	645.1	673.6
27.5°	535.5	536.2	567.6	596.0	626.4
30°	500.8	502.8	533.6	563.0	594.7
32.5°	466.2	468.5	498.6	529.1	561.4
35°	414.3	416.2	444.2	474.1	507.7
37.5°	360.7	363.4	388.2	416.5	449.5
40°	326.1	330.0	352.0	378.6	411.0
42.5°	292.7	297.6	318.0	343.2	372.5
45°	248.4	253.1	269.8	290.3	316.8
47.5°	210.2	215.7	228.5	246.1	268.7
50°	188.5	193.7	205.5	218.5	239.9
52.5°	169.4	174.6	185.1	195.2	213.4
55°	142.8	148.7	157.4	163.3	176.8
57.5°	121.0	126.7	133.5	136.2	144.3
60°	106.4	112.7	118.9	118.6	123.0
62.5°	93.1	98.5	104.7	100.4	100.7
65°	71.6	77.5	84.6	73.9	67.2
67.5°	57.9	59.1	66.3	51.5	43.5
70°	51.4	51.4	53.4	39.9	33.2
72.5°	45.2	45.2	43.4	32.4	25.4
75°	36.0	36.0	32.8	22.5	15.4
77.5°	27.8	27.4	25.1	16.8	11.2
80°	22.3	22.3	20.2	13.3	8.9
82.5°	17.4	17.4	15.7	10.4	6.6
85°	10.1	10.1	9.3	6.0	3.6
87.5°	3.7	4.2	4.3	3.3	3.0
90°	0.8	3.1	5.4	7.0	7.0
92.5°	10.7	45.9	79.5	30.5	25.1
95°	25.7	94.1	305.0	130.4	83.3
97.5°	41.9	104.4	465.4	358.6	253.0
100°	53.7	110.7	515.9	520.7	424.8
102.5°	64.9	118.3	528.9	646.0	558.0
105°	84.8	130.5	522.9	796.3	743.0
107.5°	103.8	145.5	493.1	869.9	885.7
110°	117.5	155.5	470.7	888.2	943.0

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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	129.9	166.8	448.3	876.4	959.8
115°	150.2	182.9	419.4	835.1	947.7
117.5°	169.5	199.6	401.0	777.1	904.4
120°	181.3	210.2	392.9	733.6	865.2
122.5°	191.9	220.8	387.3	695.5	820.4
125°	207.0	235.9	380.5	643.6	753.9
127.5°	221.3	248.8	376.0	600.4	697.1
130°	228.8	256.9	373.5	574.7	662.9
132.5°	237.5	265.6	371.6	552.1	631.8
135°	249.8	277.1	369.6	520.5	589.0
137.5°	261.3	286.7	367.9	495.0	551.5
140°	270.0	293.6	367.2	478.1	529.1
142.5°	277.5	299.2	366.0	463.0	506.7
145°	288.7	308.4	364.1	443.5	477.7
147.5°	300.6	317.7	363.2	426.2	453.6
150°	308.1	323.3	362.6	416.7	438.0
152.5°	315.0	329.0	362.0	408.6	426.2
155°	326.8	337.4	361.8	398.6	410.0
157.5°	335.3	344.0	361.8	390.5	398.4
160°	341.6	348.4	361.8	386.1	392.1
162.5°	346.5	352.2	362.4	382.3	387.2
165°	353.2	357.8	363.4	378.2	380.5
167.5°	357.9	361.4	364.1	374.7	375.3
170°	361.0	363.3	364.1	373.5	373.5
172.5°	363.5	364.6	364.1	371.6	371.0
175°	365.7	366.4	364.1	368.8	368.0
177.5°	366.3	366.3	363.8	367.5	366.3
180°	365.7	365.7	365.7	365.7	365.7

(END OF REPORT)