

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: P519172

Luminaire Tested: **SQ4-WB-075U-050D-840-1D-UNV-STD-W-4**

Issue Date: 4/29/2021

Test Information

Test Method: LM-79-2019
Report Number: P519172
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-840-1D-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: 4000K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

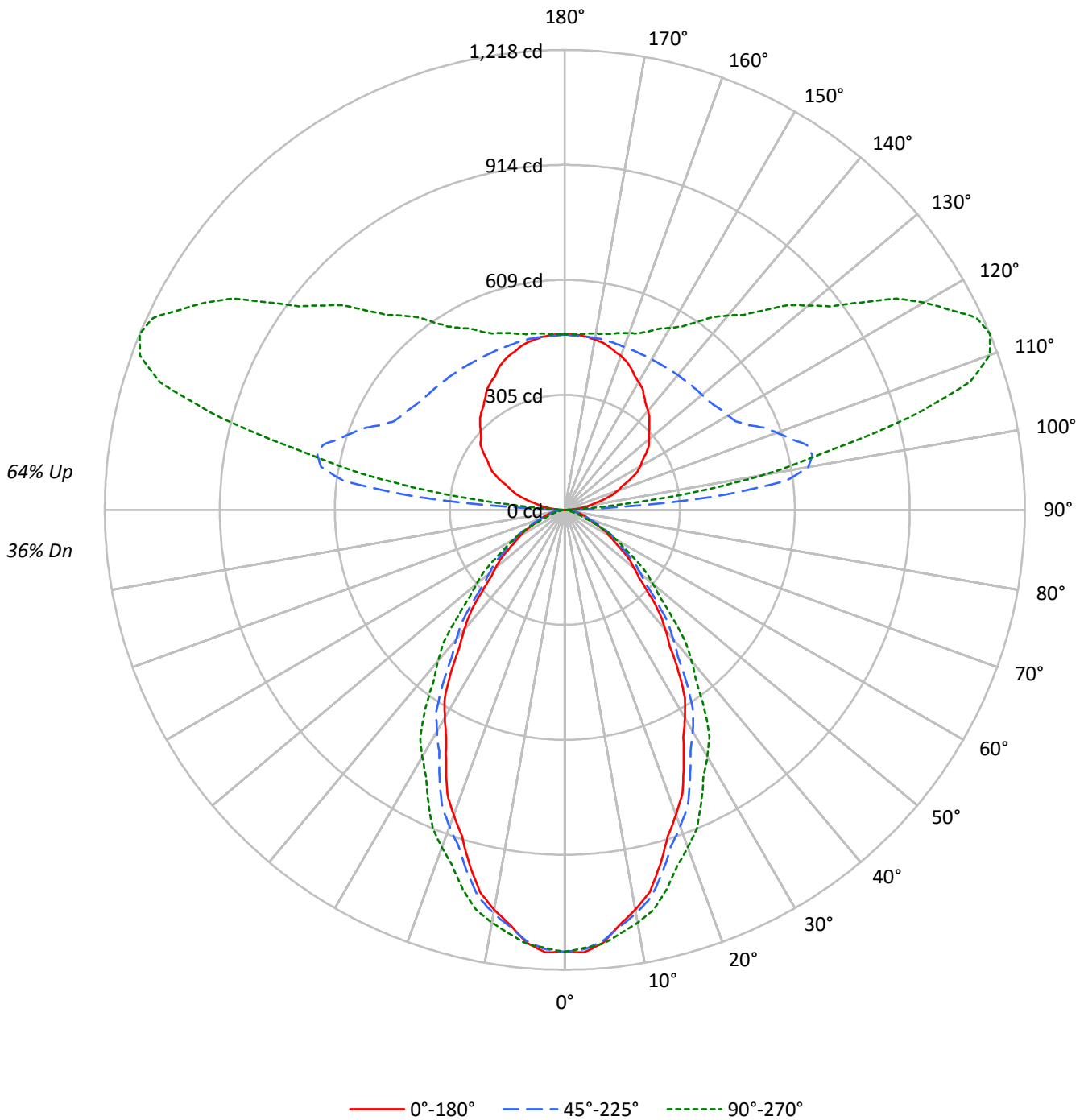
Lumens per Lamp: N/A
Luminaire Lumens: 4730.3 lumens
Efficiency: N/A
Efficacy: 136.3 lumens/watt
Spacing Criteria (0/90/45): 0.89 / 1 / 1.02
Luminous Opening: Rectangular (W 0.29' x L: 4' x H: 0')
CIE Type: Semi-Indirect

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



TEST NUMBER: P519172
CATALOG NUMBER: SQ4-WB-075U-050D-840-1D-UNV-STD-W-4

Luminous Intensity Polar Plot





TEST NUMBER: P519172

CATALOG NUMBER: SQ4-WB-075U-050D-840-1D-UNV-STD-W-4

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°	10797	10797	10797
5°	10663	10625	10686
10°	10074	10165	10401
15°	9300	9515	9942
20°	8445	8763	9342
25°	7575	7987	8704
30°	6772	7216	8041
35°	5922	6350	7258
40°	4985	5380	6283
45°	4114	4469	5247
50°	3435	3745	4371
55°	2916	3214	3610
60°	2493	2786	2880
65°	1984	2342	1860
70°	1759	1829	1136
75°	1629	1483	695
80°	1498	1365	600
85°	1355	1249	487



TEST NUMBER: P519172

CATALOG NUMBER: SQ4-WB-075U-050D-840-1D-UNV-STD-W-4

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	107.3	2.3
10°-20°	279.2	5.9
20°-30°	361.6	7.6
30°-40°	354.1	7.5
40°-50°	271.1	5.7
50°-60°	180.6	3.8
60°-70°	98.6	2.1
70°-80°	41.1	0.9
80°-90°	12.8	0.3
90°-100°	218.9	4.6
100°-110°	602.3	12.7
110°-120°	621.7	13.1
120°-130°	498.1	10.5
130°-140°	391.2	8.3
140°-150°	299.8	6.3
150°-160°	215.6	4.6
160°-170°	131.8	2.8
170°-180°	44.4	0.9
0°-30°	748.2	15.8
0°-40°	1102.3	23.3
0°-60°	1554.0	32.9
0°-90°	1706.4	36.1
90°-120°	1442.9	30.5
90°-150°	2632.1	55.6
90°-180°	3024.0	63.9
0°-180°	4730.3	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1170	1170	1170	1170	1170	
5°	1151	1140	1147	1150	1154	107
15°	974	970	996	1023	1041	272
25°	744	746	785	819	855	342
35°	526	528	564	602	644	327
45°	315	321	342	368	402	246
55°	181	189	200	207	224	164
65°	91	98	107	94	85	94
75°	46	46	42	29	20	49
85°	13	13	12	8	5	14
90°	1	4	7	9	9	3
95°	33	120	387	166	106	34
105°	108	166	664	1011	943	113
115°	191	232	532	1060	1203	188
125°	263	299	483	817	957	234
135°	317	352	469	661	748	245
145°	366	392	462	563	606	230
155°	415	428	459	506	520	191
165°	448	454	461	480	483	126
175°	464	465	462	468	467	44
180°	464	464	464	464	464	

TEST NUMBER: P519172

CATALOG NUMBER: SQ4-WB-075U-050D-840-1D-UNV-STD-W-4

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1170.3	1170.3	1170.3	1170.3	1170.3
2.5°	1173.1	1162.7	1165.3	1165.3	1162.0
5°	1151.3	1139.7	1147.2	1149.8	1153.8
7.5°	1108.5	1099.8	1113.4	1123.4	1131.5
10°	1075.3	1067.7	1085.0	1099.6	1110.2
12.5°	1036.7	1030.3	1051.7	1071.4	1085.1
15°	973.6	970.1	996.2	1023.3	1040.9
17.5°	906.1	904.4	934.4	966.0	988.5
20°	860.1	859.6	892.5	925.4	951.5
22.5°	813.7	814.8	849.3	883.6	913.3
25°	744.1	746.1	784.6	818.8	855.0
27.5°	679.7	680.6	720.4	756.5	795.1
30°	635.7	638.2	677.3	714.7	754.8
32.5°	591.8	594.7	632.9	671.6	712.5
35°	525.8	528.3	563.8	601.8	644.4
37.5°	457.8	461.3	492.8	528.6	570.6
40°	413.9	418.9	446.7	480.5	521.7
42.5°	371.6	377.8	403.6	435.7	472.8
45°	315.3	321.3	342.5	368.4	402.1
47.5°	266.8	273.7	290.0	312.3	341.1
50°	239.3	245.8	260.9	277.4	304.5
52.5°	215.1	221.6	235.0	247.7	270.8
55°	181.3	188.8	199.8	207.3	224.4
57.5°	153.5	160.8	169.5	172.9	183.2
60°	135.1	143.1	151.0	150.6	156.1
62.5°	118.2	125.0	132.9	127.5	127.8
65°	90.9	98.4	107.3	93.8	85.2
67.5°	73.4	75.0	84.2	65.4	55.3
70°	65.2	65.2	67.8	50.6	42.1
72.5°	57.4	57.4	55.0	41.2	32.2
75°	45.7	45.7	41.6	28.6	19.5
77.5°	35.2	34.8	31.8	21.3	14.2
80°	28.2	28.2	25.7	16.8	11.3
82.5°	22.1	22.1	19.9	13.1	8.4
85°	12.8	12.8	11.8	7.6	4.6
87.5°	4.7	5.3	5.5	4.2	3.8
90°	1.0	3.9	6.9	8.9	8.9
92.5°	13.6	58.2	100.9	38.8	31.8
95°	32.6	119.5	387.1	165.5	105.7
97.5°	53.1	132.5	590.8	455.2	321.2
100°	68.1	140.6	654.8	660.9	539.2
102.5°	82.4	150.2	671.4	819.9	708.3
105°	107.6	165.6	663.7	1010.8	943.2
107.5°	131.7	184.7	625.9	1104.2	1124.3
110°	149.1	197.4	597.5	1127.4	1197.0



TEST NUMBER: P519172

CATALOG NUMBER: SQ4-WB-075U-050D-840-1D-UNV-STD-W-4

CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	164.9	211.7	569.1	1112.5	1218.3
115°	190.6	232.1	532.3	1060.0	1202.9
117.5°	215.1	253.3	509.0	986.3	1148.0
120°	230.1	266.8	498.7	931.2	1098.2
122.5°	243.5	280.2	491.6	882.8	1041.3
125°	262.7	299.4	482.9	817.0	957.0
127.5°	280.9	315.8	477.2	762.1	884.9
130°	290.4	326.1	474.1	729.4	841.4
132.5°	301.4	337.1	471.7	700.7	801.9
135°	317.0	351.8	469.1	660.7	747.6
137.5°	331.6	363.9	466.9	628.4	700.0
140°	342.7	372.6	466.1	606.9	671.6
142.5°	352.2	379.8	464.6	587.7	643.1
145°	366.4	391.5	462.2	562.9	606.4
147.5°	381.6	403.2	461.0	541.0	575.8
150°	391.1	410.4	460.2	529.0	556.0
152.5°	399.8	417.6	459.4	518.6	541.0
155°	414.8	428.3	459.2	506.0	520.5
157.5°	425.7	436.7	459.2	495.6	505.7
160°	433.6	442.2	459.2	490.0	497.8
162.5°	439.9	447.0	460.0	485.3	491.4
165°	448.4	454.2	461.2	480.0	482.9
167.5°	454.3	458.7	462.2	475.6	476.4
170°	458.2	461.1	462.2	474.1	474.1
172.5°	461.4	462.8	462.2	471.7	470.9
175°	464.2	465.1	462.2	468.1	467.1
177.5°	465.0	465.0	461.8	466.5	465.0
180°	464.2	464.2	464.2	464.2	464.2

(END OF REPORT)