

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: P519017

Luminaire Tested: **SQ4-WB-025U-075D-940-1D-UNV-STD-W-6**

Issue Date: 4/29/2021

Test Information

Test Method: LM-79-2019
Report Number: P519017
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1910-536-32, 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-025U-075D-940-1D-UNV-STD-W-6
Description: CORELITE SQ4 SUSPENDED LED LUMINAIRE WITH WHITE BAFFLE
DOWNLIGHT 750 LUMENS PER FOOT
UPLIGHT 250 LUMENS PER FOOT
Light Source: 4000K CCT, 90 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

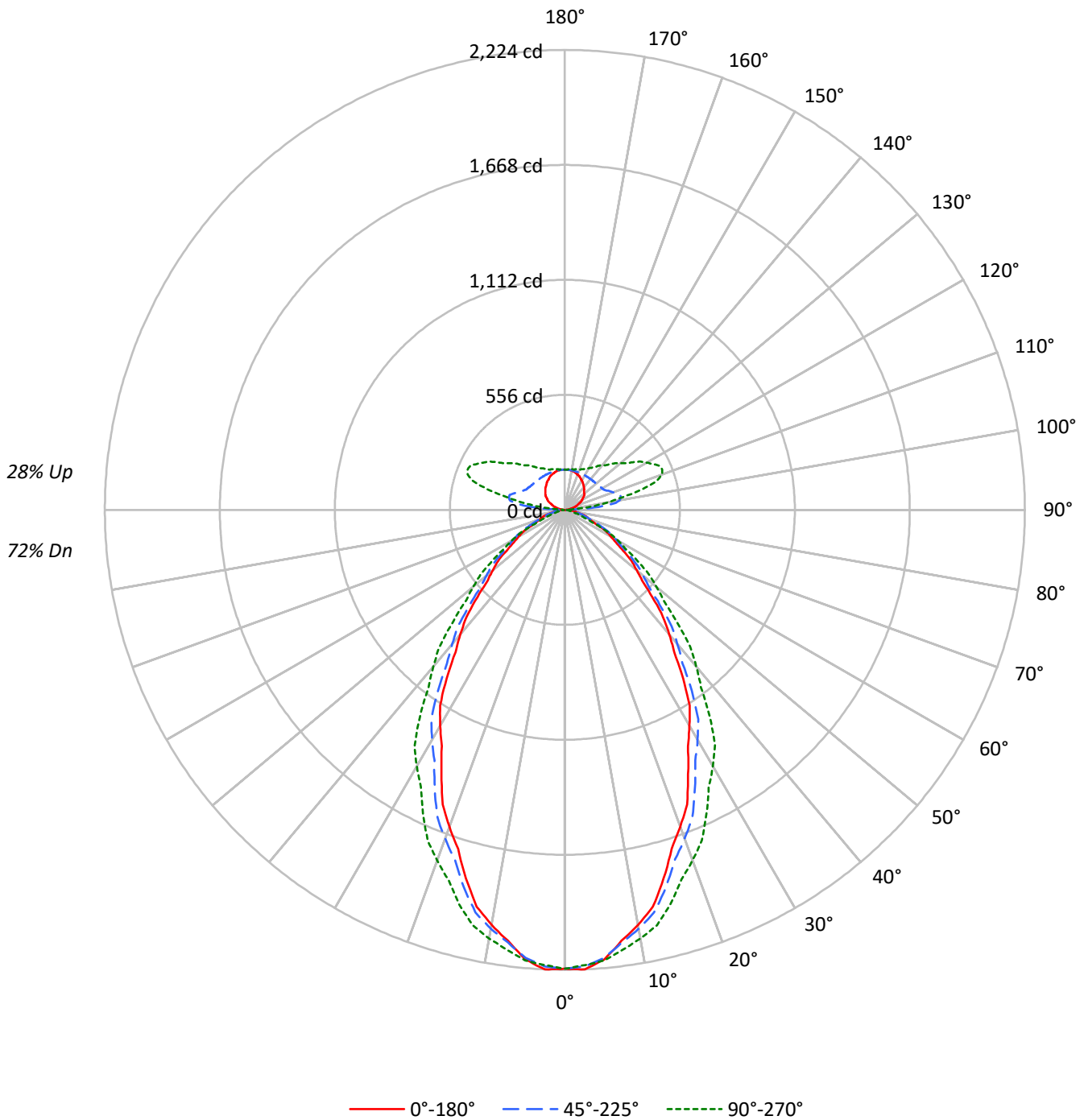
Lumens per Lamp: N/A
Luminaire Lumens: 4499.4 lumens
Efficiency: N/A
Efficacy: 92.6 lumens/watt
Spacing Criteria (0/90/45): 0.89 / 1 / 1.02
Luminous Opening: Rectangular (W 0.29' x L: 6' x H: 0')
CIE Type: Semi-Direct

Input Watts (W): 48.6
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: P519017
CATALOG NUMBER: SQ4-WB-025U-075D-940-1D-UNV-STD-W-6

Luminous Intensity Polar Plot





TEST NUMBER: P519017

CATALOG NUMBER: SQ4-WB-025U-075D-940-1D-UNV-STD-W-6

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	112	112	112	112	106	106	106	106	95	95	95	85	85	85	76	76	76	72
1	104	100	97	94	99	96	93	90	86	84	82	78	76	75	70	69	68	64
2	96	90	84	80	91	86	81	77	78	74	71	70	67	65	64	61	60	56
3	89	81	74	69	85	77	71	66	70	65	62	64	60	57	58	55	53	50
4	83	73	65	60	78	70	63	58	64	58	54	58	54	51	53	50	47	44
5	77	66	58	53	73	63	56	51	58	52	48	53	49	45	49	45	42	40
6	71	60	52	47	68	58	51	46	53	47	43	49	44	41	45	41	38	36
7	67	55	47	42	63	53	46	41	49	43	39	45	40	37	42	38	35	33
8	62	51	43	38	59	49	42	37	45	39	35	42	37	34	39	35	32	30
9	58	47	40	35	56	45	38	34	42	36	32	39	34	31	36	32	29	27
10	55	43	36	32	52	42	35	31	39	34	30	36	32	28	34	30	27	25

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	13647	13647	13647
5°	13477	13429	13508
10°	12733	12849	13147
15°	11754	12027	12567
20°	10674	11076	11809
25°	9574	10097	11001
30°	8560	9121	10165
35°	7486	8027	9175
40°	6301	6801	7943
45°	5200	5649	6631
50°	4341	4733	5524
55°	3686	4061	4563
60°	3150	3521	3641
65°	2508	2962	2352
70°	2223	2311	1435
75°	2060	1875	879
80°	1895	1725	758
85°	1715	1581	621



TEST NUMBER: P519017

CATALOG NUMBER: SQ4-WB-025U-075D-940-1D-UNV-STD-W-6

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	203.5	4.5
10°-20°	529.4	11.8
20°-30°	685.7	15.2
30°-40°	671.5	14.9
40°-50°	513.9	11.4
50°-60°	342.5	7.6
60°-70°	186.9	4.2
70°-80°	77.9	1.7
80°-90°	23.1	0.5
90°-100°	95.1	2.1
100°-110°	250.1	5.6
110°-120°	259.3	5.8
120°-130°	208.0	4.6
130°-140°	163.2	3.6
140°-150°	125.3	2.8
150°-160°	90.2	2.0
160°-170°	55.2	1.2
170°-180°	18.6	0.4
0°-30°	1418.6	31.5
0°-40°	2090.0	46.5
0°-60°	2946.4	65.5
0°-90°	3234.3	71.9
90°-120°	604.6	13.4
90°-150°	1101.1	24.5
90°-180°	1265.0	28.1
0°-180°	4499.4	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2219	2219	2219	2219	2219	
5°	2183	2161	2175	2180	2188	203
15°	1846	1839	1889	1940	1974	515
25°	1411	1415	1488	1552	1621	649
35°	997	1002	1069	1141	1222	620
45°	598	609	649	698	762	466
55°	344	358	379	393	426	312
65°	172	187	204	178	162	179
75°	87	87	79	54	37	92
85°	24	24	22	14	9	26
90°	1	4	10	5	5	2
95°	12	49	164	84	58	14
105°	45	68	276	420	392	48
115°	80	97	222	442	504	79
125°	111	125	201	340	402	99
135°	133	146	195	275	312	103
145°	154	164	193	234	253	96
155°	174	179	193	212	218	80
165°	188	190	193	200	203	53
175°	195	195	194	196	196	19
180°	195	195	195	195	195	

TEST NUMBER: P519017

CATALOG NUMBER: SQ4-WB-025U-075D-940-1D-UNV-STD-W-6

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2218.8	2218.8	2218.8	2218.8	2218.8
2.5°	2224.3	2204.5	2209.5	2209.4	2203.3
5°	2182.8	2160.9	2175.0	2180.1	2187.7
7.5°	2101.8	2085.2	2111.0	2130.0	2145.4
10°	2038.7	2024.4	2057.2	2084.9	2104.9
12.5°	1965.5	1953.5	1994.1	2031.3	2057.4
15°	1845.9	1839.3	1888.8	1940.2	1973.5
17.5°	1718.0	1714.8	1771.6	1831.5	1874.2
20°	1630.8	1629.8	1692.1	1754.6	1804.1
22.5°	1542.8	1544.9	1610.3	1675.3	1731.6
25°	1410.7	1414.6	1487.7	1552.5	1621.0
27.5°	1288.7	1290.4	1366.0	1434.4	1507.5
30°	1205.3	1210.1	1284.2	1355.0	1431.2
32.5°	1122.0	1127.5	1200.1	1273.3	1351.0
35°	997.0	1001.7	1069.0	1141.0	1221.9
37.5°	868.1	874.5	934.3	1002.3	1081.9
40°	784.7	794.2	847.0	911.1	989.2
42.5°	704.5	716.3	765.3	826.0	896.5
45°	597.8	609.2	649.4	698.5	762.3
47.5°	505.9	519.0	549.9	592.2	646.7
50°	453.7	466.1	494.6	525.9	577.3
52.5°	407.7	420.1	445.5	469.7	513.5
55°	343.7	358.0	378.7	393.1	425.5
57.5°	291.1	304.8	321.3	327.8	347.4
60°	256.1	271.3	286.2	285.5	296.0
62.5°	224.1	237.1	252.0	241.7	242.2
65°	172.3	186.6	203.5	177.8	161.6
67.5°	139.2	142.3	159.7	124.0	104.8
70°	123.6	123.6	128.5	96.0	79.8
72.5°	108.8	108.8	104.4	78.1	61.1
75°	86.7	86.7	78.9	54.1	37.0
77.5°	66.8	66.0	60.4	40.4	26.9
80°	53.5	53.5	48.7	31.9	21.4
82.5°	41.9	41.9	37.8	24.9	16.0
85°	24.3	24.3	22.4	14.5	8.8
87.5°	8.8	9.3	9.8	5.7	4.9
90°	1.3	3.7	10.0	5.0	5.0
92.5°	5.3	25.3	56.1	24.8	16.0
95°	12.5	49.2	163.9	84.5	57.6
97.5°	21.8	54.1	245.2	195.0	143.6
100°	28.8	58.1	270.3	273.9	212.7
102.5°	34.8	62.2	277.3	341.1	288.8
105°	45.0	68.3	276.5	419.8	391.6
107.5°	55.6	77.1	260.8	460.6	467.5
110°	62.6	82.1	247.7	471.1	500.5



TEST NUMBER: P519017

CATALOG NUMBER: SQ4-WB-025U-075D-940-1D-UNV-STD-W-6

CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	69.6	88.2	235.7	464.5	509.5
115°	80.1	97.2	221.5	441.8	504.2
117.5°	90.3	106.0	211.7	410.5	479.7
120°	96.3	111.0	207.7	389.4	456.7
122.5°	102.3	117.0	204.7	368.4	434.7
125°	111.4	124.8	201.4	340.5	401.6
127.5°	118.6	132.3	198.7	318.0	369.6
130°	122.6	137.3	197.7	303.9	351.6
132.5°	126.6	141.3	196.7	291.8	334.6
135°	132.6	146.1	195.2	274.8	311.6
137.5°	138.9	152.1	194.9	262.2	292.3
140°	143.9	156.1	193.9	252.1	280.3
142.5°	147.9	159.1	193.9	245.0	269.3
145°	153.9	163.7	192.7	234.4	252.7
147.5°	159.9	169.4	192.7	225.6	240.7
150°	163.9	172.5	192.7	220.5	232.7
152.5°	167.9	174.5	192.7	216.4	225.7
155°	173.9	178.8	192.7	211.6	217.7
157.5°	178.4	183.1	192.7	207.3	211.7
160°	181.4	185.1	192.7	205.3	207.7
162.5°	184.4	187.1	192.7	203.3	205.7
165°	187.7	190.1	192.7	200.2	202.7
167.5°	190.7	191.9	193.9	199.0	199.9
170°	192.7	193.9	193.9	198.9	198.9
172.5°	193.7	193.9	193.9	197.9	196.9
175°	195.2	195.2	193.9	196.4	196.4
177.5°	195.2	195.2	194.2	196.2	195.2
180°	195.2	195.2	195.2	195.2	195.2

(END OF REPORT)