

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: P519304

Luminaire Tested: **SQ4-WB-0U-075D-940-1D-UNV-STD-W-4**

Issue Date: 4/29/2021

Test Information

Test Method: LM-79-2019
Report Number: P519304
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (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-0U-075D-940-1D-UNV-STD-W-4
Description: CORELITE SQ4 SUSPENDED LED LUMINAIRE WITH WHITE BAFFLE
DOWNLIGHT 750 LUMENS PER FOOT
DIRECT ONLY
Light Source: 4000K CCT, 90 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

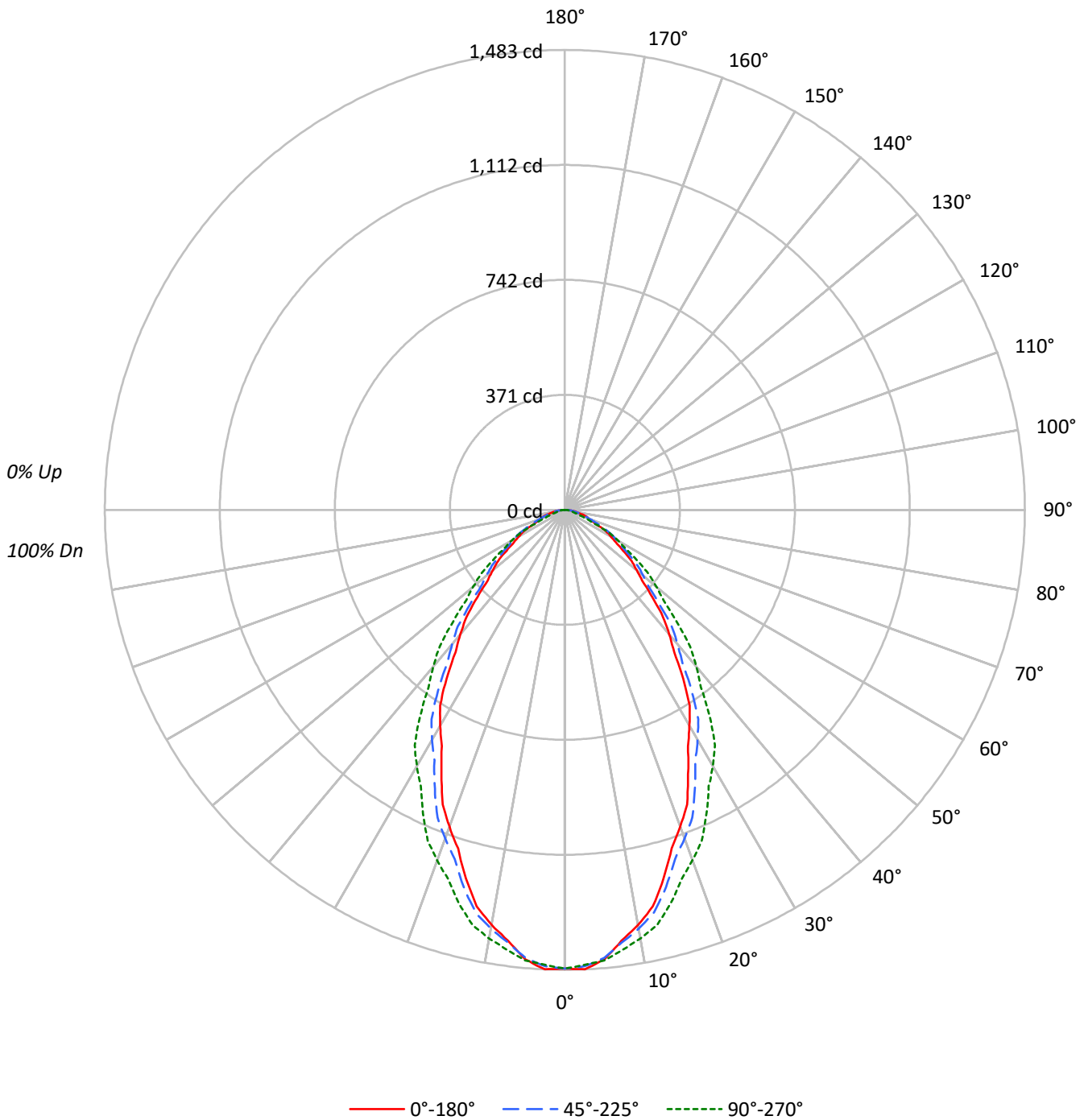
Lumens per Lamp: N/A
Luminaire Lumens: 2155.5 lumens
Efficiency: N/A
Efficacy: 89.8 lumens/watt
Spacing Criteria (0/90/45): 0.89 / 1 / 1.02
Luminous Opening: Rectangular (W 0.29' x L: 4' x H: 0')
CIE Type: Direct

Input Watts (W): 24
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	50	30	10	0	
RCR																						
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100				100
1	111	107	104	101	109	105	102	99	101	99	96	97	95	93	94	92	91	89				89
2	103	97	91	87	101	95	90	86	92	87	84	88	85	82	85	83	80	78				78
3	96	87	81	75	94	86	80	75	83	78	73	80	76	72	78	74	71	69				69
4	89	79	72	66	87	78	71	66	76	70	65	74	68	64	71	67	64	62				62
5	83	72	65	59	81	71	64	59	69	63	58	67	62	58	66	61	57	55				55
6	78	66	59	53	76	65	58	53	64	57	53	62	56	52	61	56	52	50				50
7	73	61	53	48	71	60	53	48	59	52	48	58	52	47	56	51	47	45				45
8	68	57	49	44	67	56	49	44	55	48	44	53	48	43	52	47	43	41				41
9	64	53	45	40	63	52	45	40	51	45	40	50	44	40	49	44	40	38				38
10	61	49	42	37	60	48	42	37	48	41	37	47	41	37	46	41	37	35				35

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	11808
25°	9574	10097	11002
30°	8560	9120	10165
35°	7485	8027	9175
40°	6300	6801	7943
45°	5200	5648	6631
50°	4342	4732	5525
55°	3685	4062	4562
60°	3150	3521	3641
65°	2508	2962	2351
70°	2223	2312	1435
75°	2060	1875	880
80°	1897	1727	760
85°	1715	1577	614



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	135.7	6.3
10°-20°	352.9	16.4
20°-30°	457.1	21.2
30°-40°	447.6	20.8
40°-50°	342.6	15.9
50°-60°	228.3	10.6
60°-70°	124.6	5.8
70°-80°	51.9	2.4
80°-90°	14.7	0.7
90°-100°	0.0	0.0
100°-110°	0.0	0.0
110°-120°	0.0	0.0
120°-130°	0.0	0.0
130°-140°	0.0	0.0
140°-150°	0.0	0.0
150°-160°	0.0	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-30°	945.7	43.9
0°-40°	1393.3	64.6
0°-60°	1964.3	91.1
0°-90°	2155.5	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2155.5	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1479	1479	1479	1479	1479	
5°	1455	1441	1450	1453	1458	135
15°	1231	1226	1259	1293	1316	344
25°	940	943	992	1035	1081	433
35°	665	668	713	761	815	413
45°	398	406	433	466	508	311
55°	229	239	252	262	284	208
65°	115	124	136	118	108	119
75°	58	58	53	36	25	62
85°	16	16	15	10	6	18
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1479.2	1479.2	1479.2	1479.2	1479.2
2.5°	1482.9	1469.7	1473.0	1472.9	1468.8
5°	1455.2	1440.6	1450.0	1453.4	1458.5
7.5°	1401.2	1390.2	1407.3	1420.0	1430.3
10°	1359.1	1349.6	1371.5	1390.0	1403.3
12.5°	1310.3	1302.3	1329.4	1354.2	1371.6
15°	1230.6	1226.2	1259.2	1293.4	1315.7
17.5°	1145.3	1143.2	1181.0	1221.0	1249.5
20°	1087.2	1086.6	1128.1	1169.7	1202.7
22.5°	1028.5	1029.9	1073.6	1116.9	1154.4
25°	940.5	943.0	991.8	1035.0	1080.7
27.5°	859.1	860.2	910.6	956.3	1005.0
30°	803.5	806.7	856.1	903.4	954.1
32.5°	748.0	751.7	800.0	848.9	900.6
35°	664.6	667.8	712.7	760.6	814.6
37.5°	578.7	583.0	622.8	668.2	721.2
40°	523.1	529.5	564.7	607.4	659.5
42.5°	469.7	477.5	510.2	550.7	597.7
45°	398.5	406.1	432.9	465.7	508.2
47.5°	337.3	346.0	366.6	394.8	431.1
50°	302.5	310.7	329.7	350.6	384.9
52.5°	271.8	280.1	297.0	313.1	342.3
55°	229.1	238.6	252.5	262.1	283.6
57.5°	194.1	203.2	214.2	218.5	231.6
60°	170.7	180.9	190.8	190.3	197.3
62.5°	149.4	158.0	168.0	161.1	161.5
65°	114.9	124.4	135.7	118.5	107.7
67.5°	92.8	94.8	106.4	82.7	69.8
70°	82.4	82.4	85.7	64.0	53.2
72.5°	72.6	72.6	69.6	52.1	40.8
75°	57.8	57.8	52.6	36.1	24.7
77.5°	44.5	44.0	40.2	26.9	17.9
80°	35.7	35.7	32.5	21.3	14.3
82.5°	27.9	27.9	25.2	16.6	10.6
85°	16.2	16.2	14.9	9.6	5.8
87.5°	5.7	5.7	5.2	3.1	2.6
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)