

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: P519305

Luminaire Tested: **SQ4-WB-0U-075D-940-1D-UNV-STD-W-6**

Issue Date: 4/29/2021

Test Information

Test Method: LM-79-2019
Report Number: P519305
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-6
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

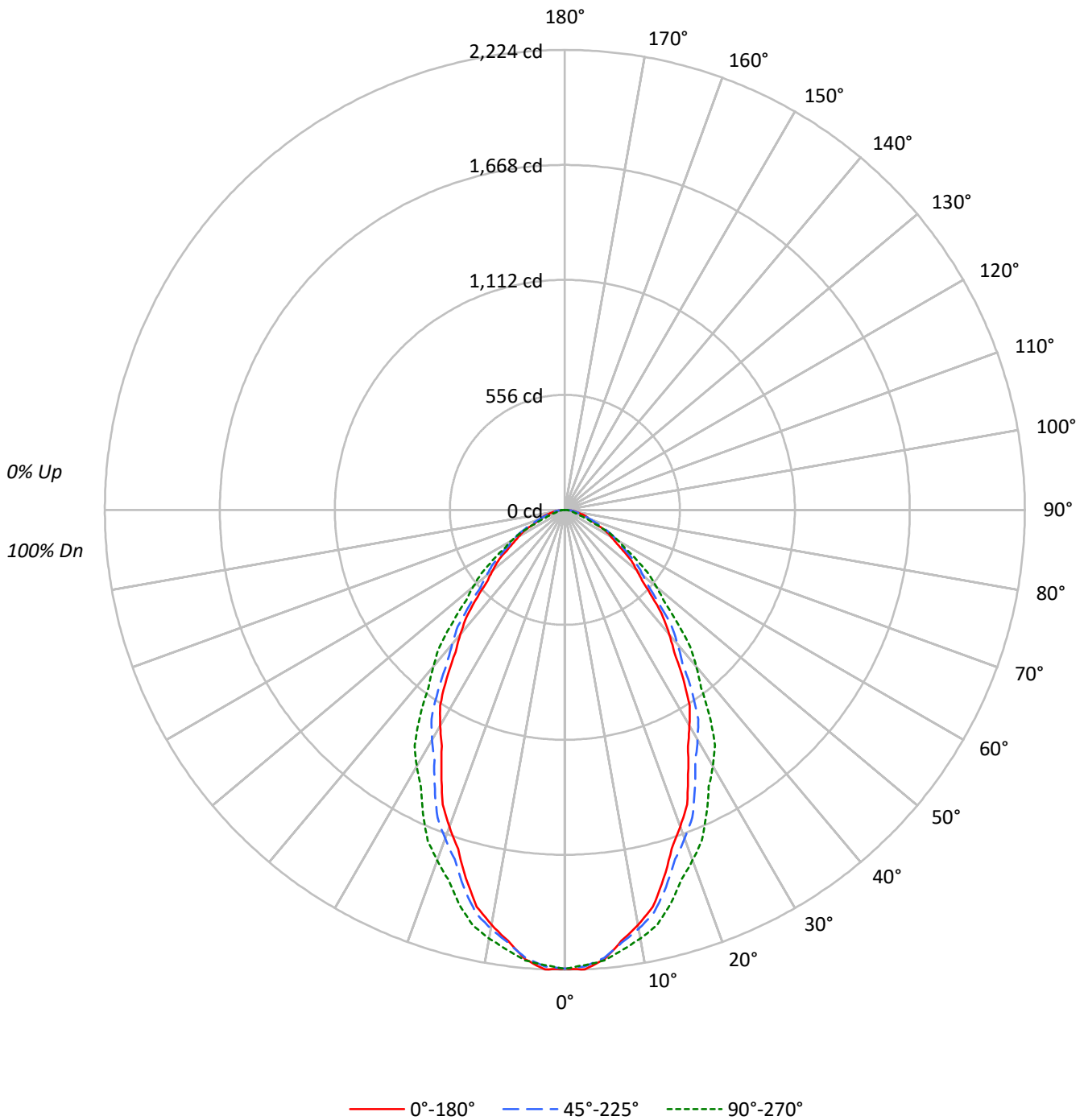
Lumens per Lamp: N/A
Luminaire Lumens: 3233.3 lumens
Efficiency: N/A
Efficacy: 80.0 lumens/watt
Spacing Criteria (0/90/45): 0.89 / 1 / 1.02
Luminous Opening: Rectangular (W 0.29' x L: 6' x H: 0')
CIE Type: Direct

Input Watts (W): 40.4
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	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100
1	111	107	104	101	109	105	102	99	101	99	96	97	95	93	94	92	91	89
2	103	97	91	87	101	95	90	86	92	87	84	88	85	82	85	83	80	78
3	96	87	81	75	94	86	80	75	83	78	73	80	76	72	78	74	71	69
4	89	79	72	66	87	78	71	66	76	70	65	74	68	64	71	67	64	62
5	83	72	65	59	81	71	64	59	69	63	58	67	62	58	66	61	57	55
6	78	66	59	53	76	65	58	53	64	57	53	62	56	52	61	56	52	50
7	73	61	53	48	71	60	53	48	59	52	48	58	52	47	56	51	47	45
8	68	57	49	44	67	56	49	44	55	48	44	53	48	43	52	47	43	41
9	64	53	45	40	63	52	45	40	51	45	40	50	44	40	49	44	40	38
10	61	49	42	37	60	48	42	37	48	41	37	47	41	37	46	41	37	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	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



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	203.5	6.3
10°-20°	529.4	16.4
20°-30°	685.7	21.2
30°-40°	671.5	20.8
40°-50°	513.9	15.9
50°-60°	342.5	10.6
60°-70°	186.9	5.8
70°-80°	77.9	2.4
80°-90°	22.1	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°	1418.6	43.9
0°-40°	2090.0	64.6
0°-60°	2946.4	91.1
0°-90°	3233.3	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3233.3	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	28
90°	0	0	0	0	0	



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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°	8.6	8.6	7.8	4.7	3.9
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)