

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: P519113

Luminaire Tested: **SQ4-WB-050U-075D-940-1D-UNV-STD-W-6**

Issue Date: 4/29/2021

Test Information

Test Method: LM-79-2019
Report Number: P519113
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1910-536-21, 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-050U-075D-940-1D-UNV-STD-W-6
Description: CORELITE SQ4 SUSPENDED LED LUMINAIRE WITH WHITE BAFFLE
DOWNLIGHT 750 LUMENS PER FOOT
UPLIGHT 500 LUMENS PER FOOT
Light Source: 4000K CCT, 90 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

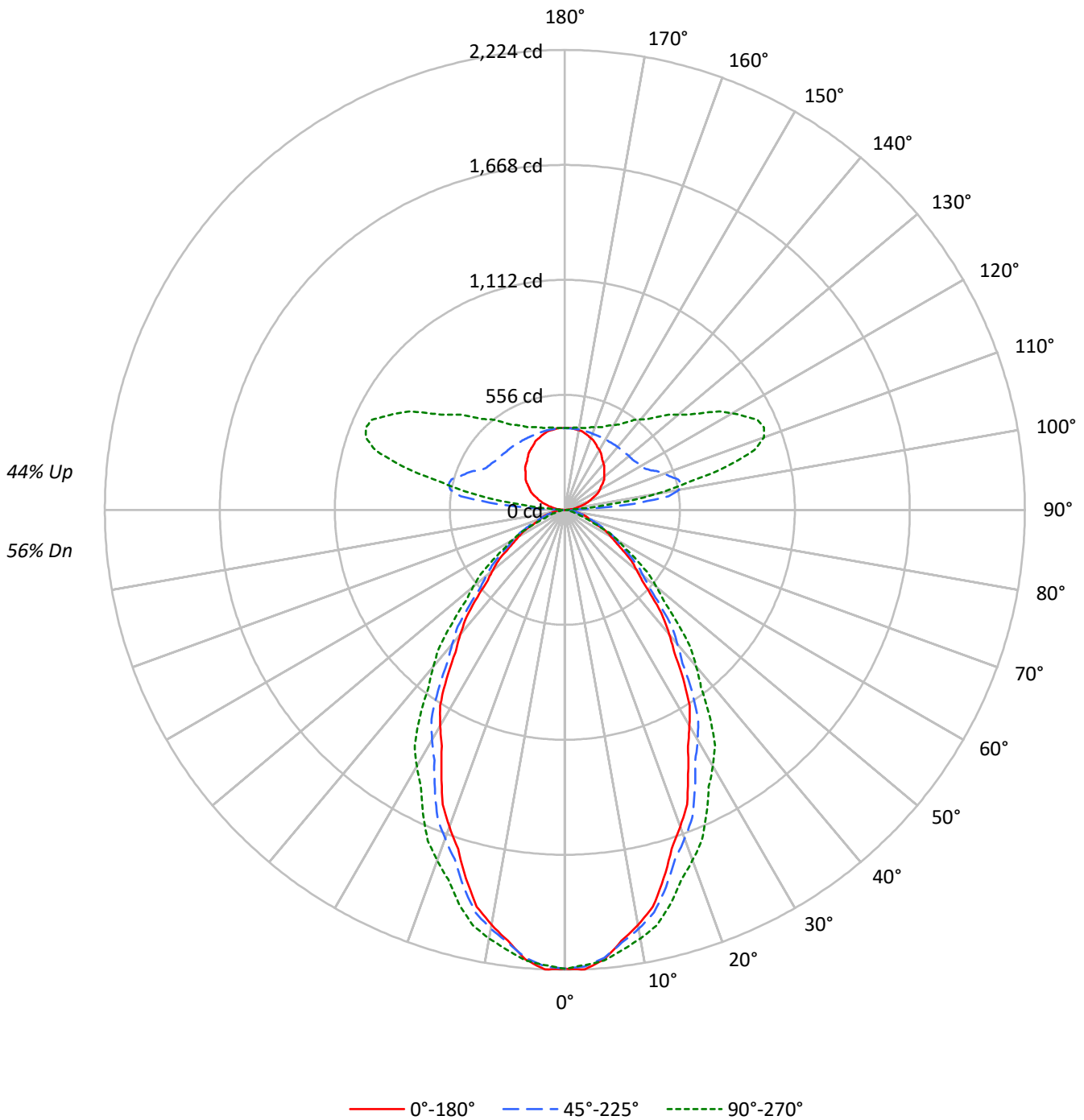
Lumens per Lamp: N/A
Luminaire Lumens: 5817.8 lumens
Efficiency: N/A
Efficacy: 99.4 lumens/watt
Spacing Criteria (0/90/45): 0.89 / 1 / 1.02
Luminous Opening: Rectangular (W 0.29' x L: 6' x H: 0')
CIE Type: General Diffuse

Input Watts (W): 58.5
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	108	108	108	108	101	101	101	101	86	86	86	73	73	73	61	61	61	56
1	100	96	93	90	93	90	87	84	78	76	74	66	65	64	56	55	54	49
2	92	86	80	76	86	80	75	71	70	66	63	60	57	55	51	49	48	43
3	85	77	70	65	79	72	66	61	63	58	55	54	51	48	46	44	42	38
4	79	69	62	56	73	65	58	53	57	52	48	49	46	43	42	40	38	34
5	73	62	55	49	68	58	52	47	51	46	42	45	41	38	39	36	34	31
6	68	56	49	43	63	53	46	41	47	42	38	41	37	34	36	33	30	28
7	63	51	44	39	59	49	42	37	43	38	34	38	34	31	33	30	28	25
8	59	47	40	35	55	45	38	33	40	34	31	35	31	28	31	28	25	23
9	55	43	36	31	51	41	35	30	37	32	28	33	29	26	29	26	23	21
10	52	40	33	29	48	38	32	28	34	29	26	30	26	23	27	24	21	20

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	3.5
10°-20°	529.4	9.1
20°-30°	685.7	11.8
30°-40°	671.5	11.5
40°-50°	513.9	8.8
50°-60°	342.5	5.9
60°-70°	186.9	3.2
70°-80°	77.9	1.3
80°-90°	23.6	0.4
90°-100°	189.9	3.3
100°-110°	515.9	8.9
110°-120°	530.4	9.1
120°-130°	424.1	7.3
130°-140°	333.2	5.7
140°-150°	255.5	4.4
150°-160°	183.7	3.2
160°-170°	112.4	1.9
170°-180°	37.9	0.7
0°-30°	1418.6	24.4
0°-40°	2090.0	35.9
0°-60°	2946.4	50.6
0°-90°	3234.8	55.6
90°-120°	1236.2	21.2
90°-150°	2249.0	38.7
90°-180°	2583.0	44.4
0°-180°	5817.8	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	5	9	11	11	3
95°	28	104	331	144	97	30
105°	92	143	567	864	813	97
115°	163	198	454	903	1029	161
125°	224	255	411	692	817	200
135°	270	300	399	564	636	209
145°	312	334	394	479	515	196
155°	352	365	392	430	443	162
165°	382	387	393	410	411	108
175°	396	397	394	399	398	38
180°	396	396	396	396	396	

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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°	8.8	9.6	9.6	6.9	6.2
90°	1.3	5.0	8.9	11.4	11.4
92.5°	11.4	52.0	90.3	38.8	32.8
95°	28.0	103.9	330.7	143.9	96.7
97.5°	46.3	114.7	507.0	394.5	277.0
100°	58.5	121.9	561.0	568.6	459.2
102.5°	70.7	129.2	575.2	703.3	606.8
105°	91.6	142.6	567.3	863.8	812.8
107.5°	113.2	158.2	534.5	946.7	960.9
110°	128.5	169.5	510.1	963.0	1024.0

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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	141.7	180.8	485.7	949.5	1041.3
115°	162.8	197.6	454.1	903.4	1029.1
117.5°	182.7	216.0	434.0	838.2	979.7
120°	195.9	228.2	424.9	794.4	934.9
122.5°	207.1	239.4	418.7	750.5	886.1
125°	223.9	255.0	410.9	692.3	816.6
127.5°	238.9	269.7	406.5	648.1	754.8
130°	248.0	277.9	404.5	620.4	716.1
132.5°	257.2	287.1	402.5	596.7	681.5
135°	269.7	299.5	399.4	563.9	636.0
137.5°	283.2	310.3	397.9	534.9	595.6
140°	291.3	317.4	396.9	516.4	571.1
142.5°	299.4	323.6	395.9	502.0	547.7
145°	311.6	334.0	394.3	479.1	515.2
147.5°	325.4	344.5	393.1	461.1	489.5
150°	334.5	350.7	393.1	450.8	473.2
152.5°	341.7	355.8	392.0	441.6	460.0
155°	352.3	364.8	391.8	430.2	442.7
157.5°	362.8	372.5	391.8	422.5	432.0
160°	368.9	377.6	391.8	417.4	424.9
162.5°	375.0	381.7	392.8	413.3	418.7
165°	381.6	386.6	393.1	409.6	410.9
167.5°	388.5	391.0	394.3	405.3	406.3
170°	390.5	393.0	394.3	403.2	403.2
172.5°	392.5	394.0	394.3	401.2	401.2
175°	395.6	396.8	394.3	399.4	398.1
177.5°	396.6	396.6	393.6	397.6	395.6
180°	395.6	395.6	395.6	395.6	395.6

(END OF REPORT)