

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: P519263

Luminaire Tested: **SQ4-WB-0U-050D-835-1D-UNV-STD-W-12**

Issue Date: 4/29/2021

Test Information

Test Method: LM-79-2019
Report Number: P519263
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-050D-835-1D-UNV-STD-W-12
Description: CORELITE SQ4 SUSPENDED LED LUMINAIRE WITH WHITE BAFFLE
DOWNLIGHT 500 LUMENS PER FOOT
DIRECT ONLY
Light Source: 3500K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

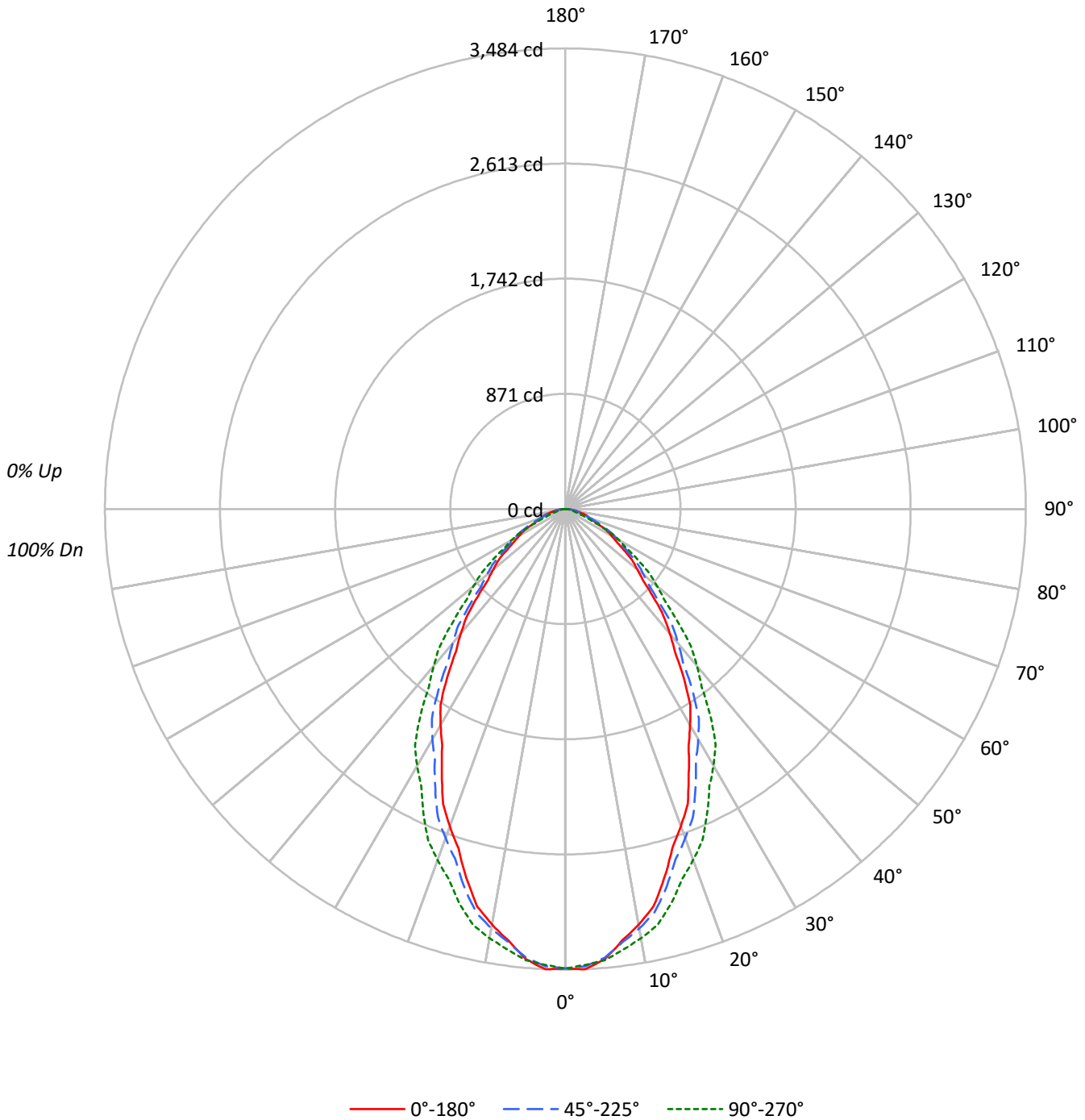
Lumens per Lamp: N/A
Luminaire Lumens: 5064.9 lumens
Efficiency: N/A
Efficacy: 94.8 lumens/watt
Spacing Criteria (0/90/45): 0.89 / 1 / 1.02
Luminous Opening: Rectangular (W 0.29' x L: 12' x H: 0')
CIE Type: Direct

Input Watts (W): 53.4
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°	10689	10689	10689
5°	10556	10519	10580
10°	9973	10064	10297
15°	9207	9420	9843
20°	8361	8675	9249
25°	7499	7908	8617
30°	6705	7144	7962
35°	5864	6287	7186
40°	4935	5327	6221
45°	4073	4425	5194
50°	3400	3707	4327
55°	2887	3181	3574
60°	2467	2758	2852
65°	1965	2320	1843
70°	1742	1810	1125
75°	1612	1467	689
80°	1486	1351	595
85°	1344	1239	483



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	318.8	6.3
10°-20°	829.2	16.4
20°-30°	1074.1	21.2
30°-40°	1051.8	20.8
40°-50°	805.1	15.9
50°-60°	536.5	10.6
60°-70°	292.8	5.8
70°-80°	122.0	2.4
80°-90°	34.5	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°	2222.2	43.9
0°-40°	3274.0	64.6
0°-60°	4615.6	91.1
0°-90°	5064.9	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5064.9	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	3476	3476	3476	3476	3476	
5°	3419	3385	3407	3415	3427	318
15°	2892	2881	2959	3039	3092	808
25°	2210	2216	2330	2432	2539	1016
35°	1562	1569	1675	1787	1914	971
45°	936	954	1017	1094	1194	730
55°	538	561	593	616	666	488
65°	270	292	319	278	253	281
75°	136	136	124	85	58	145
85°	38	38	35	23	14	43
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	3475.8	3475.8	3475.8	3475.8	3475.8
2.5°	3484.4	3453.3	3461.2	3461.0	3451.4
5°	3419.4	3385.1	3407.2	3415.1	3427.0
7.5°	3292.5	3266.5	3306.8	3336.7	3360.8
10°	3193.7	3171.3	3222.6	3266.1	3297.4
12.5°	3079.0	3060.2	3123.8	3182.1	3223.0
15°	2891.7	2881.2	2958.8	3039.3	3091.5
17.5°	2691.3	2686.2	2775.2	2869.1	2935.9
20°	2554.6	2553.1	2650.7	2748.6	2826.1
22.5°	2416.8	2420.0	2522.6	2624.4	2712.6
25°	2209.9	2215.9	2330.4	2432.0	2539.4
27.5°	2018.7	2021.4	2139.8	2247.0	2361.5
30°	1888.1	1895.6	2011.7	2122.7	2242.0
32.5°	1757.6	1766.2	1879.9	1994.6	2116.3
35°	1561.8	1569.2	1674.6	1787.3	1914.1
37.5°	1359.8	1370.0	1463.5	1570.1	1694.7
40°	1229.3	1244.2	1326.9	1427.3	1549.6
42.5°	1103.6	1122.1	1198.8	1294.0	1404.4
45°	936.4	954.3	1017.3	1094.3	1194.2
47.5°	792.5	813.0	861.4	927.7	1013.0
50°	710.7	730.1	774.8	823.9	904.4
52.5°	638.7	658.1	697.9	735.8	804.4
55°	538.4	560.7	593.3	615.8	666.5
57.5°	456.0	477.5	503.3	513.5	544.2
60°	401.1	425.0	448.4	447.2	463.6
62.5°	351.1	371.4	394.7	378.6	379.5
65°	270.0	292.3	318.8	278.5	253.2
67.5°	218.1	222.9	250.1	194.2	164.1
70°	193.7	193.7	201.3	150.4	125.1
72.5°	170.5	170.5	163.5	122.3	95.8
75°	135.7	135.7	123.5	84.8	58.0
77.5°	104.6	103.4	94.6	63.3	42.1
80°	83.9	83.9	76.3	50.0	33.6
82.5°	65.6	65.6	59.2	39.0	25.0
85°	38.1	38.1	35.1	22.7	13.7
87.5°	13.4	13.4	12.2	7.3	6.1
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)