

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: P519316

Luminaire Tested: **SQ4-WB-0U-100D-840-1D-UNV-STD-W-4**

Issue Date: 4/29/2021

Test Information

Test Method: LM-79-2019
Report Number: P519316
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-100D-840-1D-UNV-STD-W-4
Description: CORELITE SQ4 SUSPENDED LED LUMINAIRE WITH WHITE BAFFLE
DOWNLIGHT 1000 LUMENS PER FOOT
DIRECT ONLY
Light Source: 4000K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

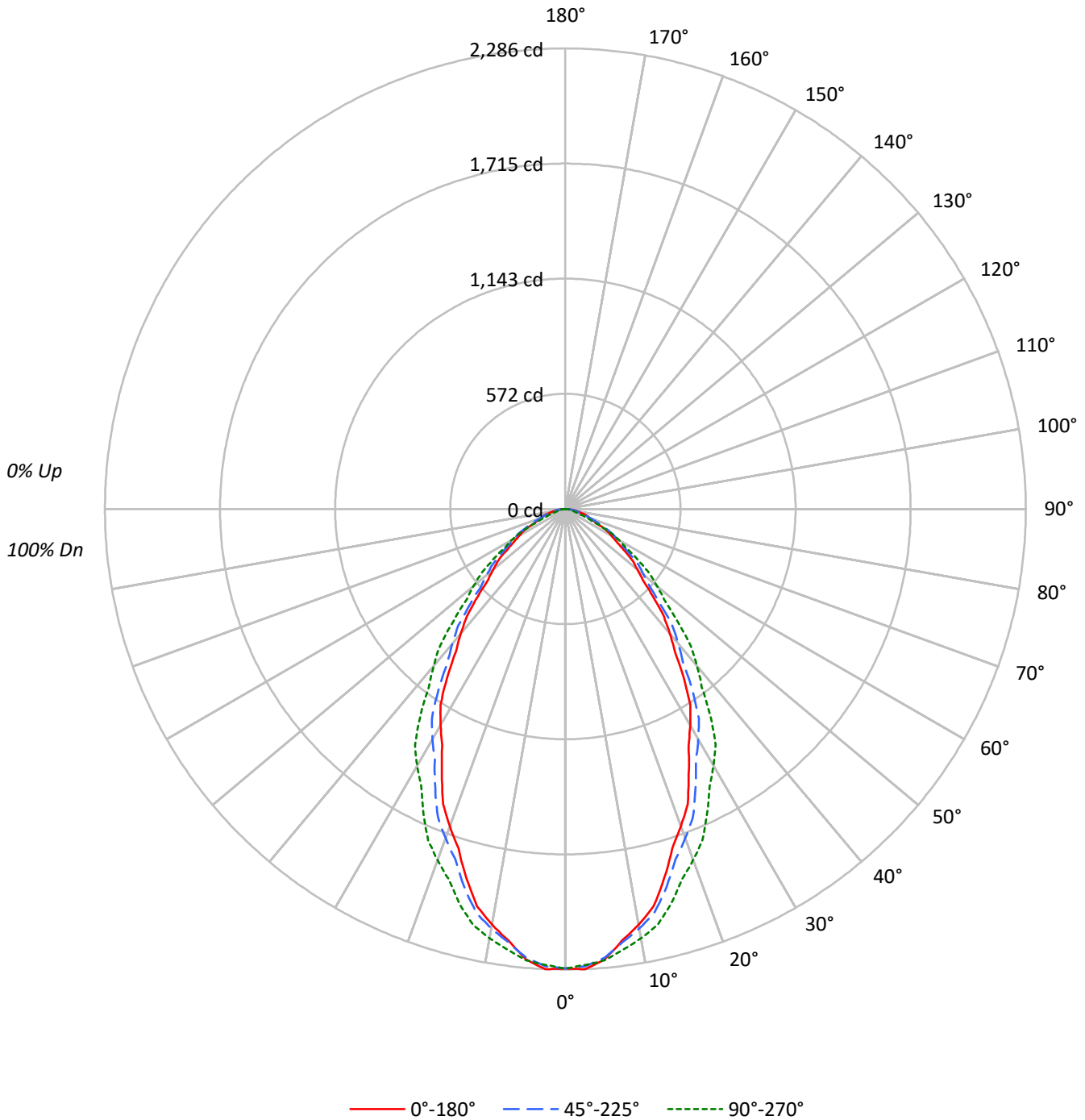
Lumens per Lamp: N/A
Luminaire Lumens: 3323.5 lumens
Efficiency: N/A
Efficacy: 101.3 lumens/watt
Spacing Criteria (0/90/45): 0.89 / 1 / 1.02
Luminous Opening: Rectangular (W 0.29' x L: 4' x H: 0')
CIE Type: Direct

Input Watts (W): 32.8
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°	21043	21043	21043
5°	20780	20706	20826
10°	19633	19811	20271
15°	18124	18545	19377
20°	16458	17078	18207
25°	14762	15567	16963
30°	13200	14063	15672
35°	11542	12377	14146
40°	9715	10487	12246
45°	8018	8709	10224
50°	6694	7297	8519
55°	5683	6262	7034
60°	4857	5429	5613
65°	3866	4567	3626
70°	3429	3563	2215
75°	3176	2891	1355
80°	2922	2657	1169
85°	2646	2435	953



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	209.2	6.3
10°-20°	544.1	16.4
20°-30°	704.8	21.2
30°-40°	690.2	20.8
40°-50°	528.3	15.9
50°-60°	352.0	10.6
60°-70°	192.1	5.8
70°-80°	80.0	2.4
80°-90°	22.7	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°	1458.2	43.9
0°-40°	2148.4	64.6
0°-60°	3028.7	91.1
0°-90°	3323.5	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3323.5	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2281	2281	2281	2281	2281	
5°	2244	2221	2236	2241	2249	209
15°	1898	1891	1942	1994	2029	530
25°	1450	1454	1529	1596	1666	667
35°	1025	1030	1099	1173	1256	637
45°	614	626	668	718	784	479
55°	353	368	389	404	437	320
65°	177	192	209	183	166	184
75°	89	89	81	56	38	95
85°	25	25	23	15	9	28
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2280.8	2280.8	2280.8	2280.8	2280.8
2.5°	2286.4	2266.0	2271.2	2271.0	2264.8
5°	2243.7	2221.2	2235.7	2240.9	2248.7
7.5°	2160.5	2143.5	2169.9	2189.5	2205.3
10°	2095.6	2080.9	2114.6	2143.1	2163.7
12.5°	2020.4	2008.0	2049.8	2088.0	2114.8
15°	1897.5	1890.6	1941.5	1994.3	2028.6
17.5°	1766.0	1762.6	1821.0	1882.7	1926.5
20°	1676.3	1675.3	1739.4	1803.6	1854.4
22.5°	1585.8	1588.0	1655.3	1722.1	1780.0
25°	1450.1	1454.0	1529.2	1595.8	1666.3
27.5°	1324.6	1326.4	1404.1	1474.5	1549.6
30°	1239.0	1243.9	1320.0	1392.9	1471.1
32.5°	1153.3	1159.0	1233.6	1308.8	1388.7
35°	1024.8	1029.7	1098.9	1172.8	1256.0
37.5°	892.3	898.9	960.3	1030.3	1112.1
40°	806.6	816.4	870.7	936.5	1016.8
42.5°	724.2	736.3	786.6	849.1	921.5
45°	614.5	626.2	667.5	718.0	783.6
47.5°	520.0	533.5	565.2	608.7	664.7
50°	466.4	479.1	508.4	540.6	593.5
52.5°	419.1	431.8	458.0	482.8	527.8
55°	353.3	368.0	389.3	404.1	437.3
57.5°	299.2	313.3	330.3	336.9	357.1
60°	263.2	278.9	294.2	293.5	304.2
62.5°	230.4	243.7	259.0	248.4	249.0
65°	177.1	191.8	209.2	182.8	166.1
67.5°	143.1	146.2	164.1	127.5	107.7
70°	127.1	127.1	132.1	98.7	82.1
72.5°	111.9	111.9	107.3	80.3	62.8
75°	89.1	89.1	81.1	55.6	38.0
77.5°	68.7	67.9	62.0	41.5	27.6
80°	55.0	55.0	50.0	32.8	22.0
82.5°	43.0	43.0	38.8	25.6	16.4
85°	25.0	25.0	23.0	14.9	9.0
87.5°	8.8	8.8	8.0	4.8	4.0
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)