

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: P519275

Luminaire Tested: **SQ4-WB-0U-050D-935-1D-UNV-STD-W-12**

Issue Date: 4/29/2021

Test Information

Test Method: LM-79-2019
Report Number: P519275
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-935-1D-UNV-STD-W-12
Description: CORELITE SQ4 SUSPENDED LED LUMINAIRE WITH WHITE BAFFLE
DOWNLIGHT 500 LUMENS PER FOOT
DIRECT ONLY
Light Source: 3500K CCT, 90 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

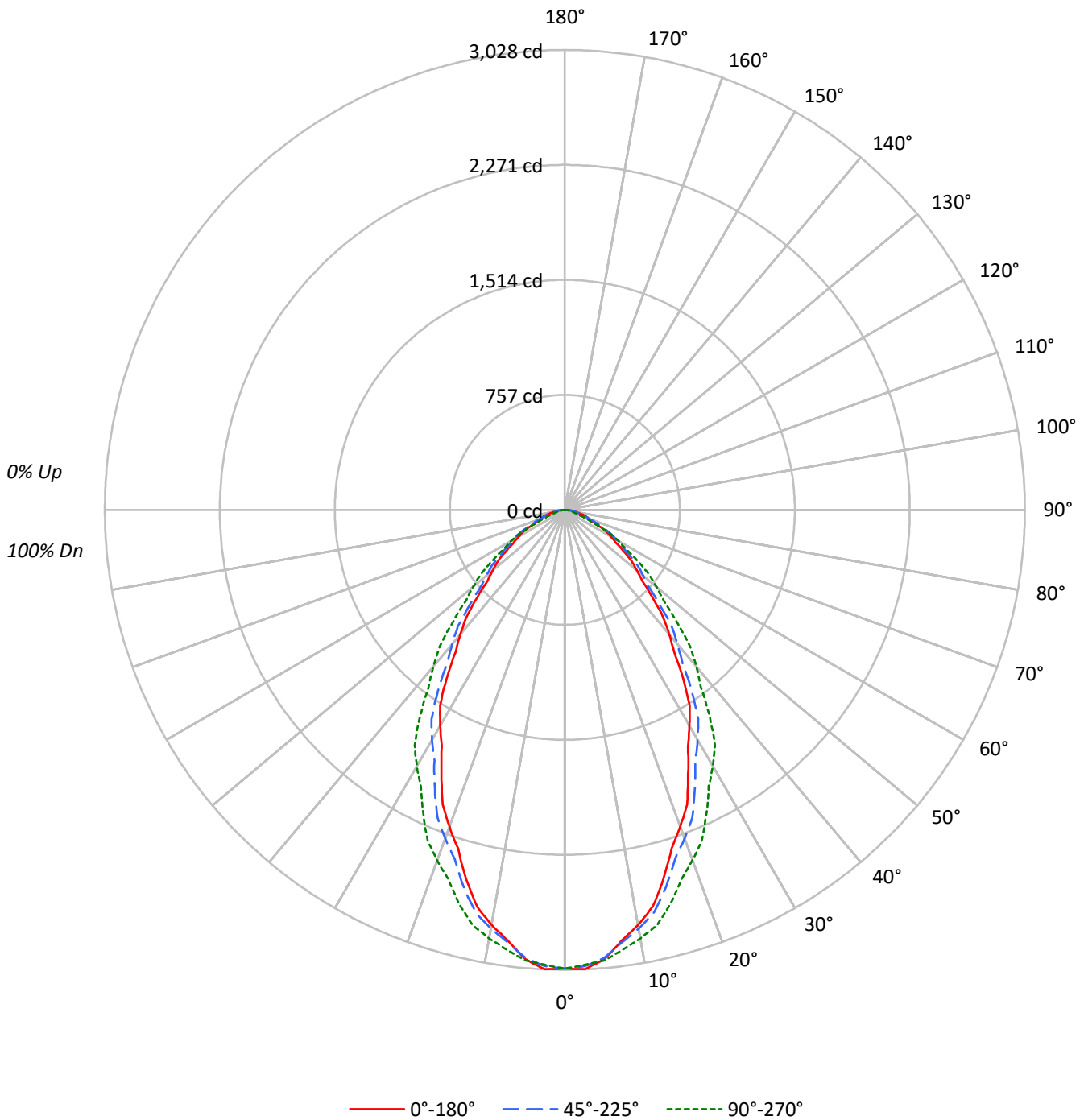
Lumens per Lamp: N/A
Luminaire Lumens: 4400.9 lumens
Efficiency: N/A
Efficacy: 82.4 lumens/watt
Spacing Criteria (0/90/45): 0.89 / 1 / 1.02
Luminous Opening: Rectangular (W 0.29' x L: 12' x H: 0')
CIE Type: Direct

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°	9288	9288	9288
5°	9172	9140	9193
10°	8666	8744	8947
15°	8000	8185	8553
20°	7265	7538	8037
25°	6516	6871	7487
30°	5826	6207	6918
35°	5095	5463	6244
40°	4288	4628	5405
45°	3539	3844	4513
50°	2954	3221	3760
55°	2508	2764	3105
60°	2144	2396	2478
65°	1707	2016	1601
70°	1513	1573	977
75°	1401	1275	599
80°	1291	1174	517
85°	1168	1076	420



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	277.0	6.3
10°-20°	720.5	16.4
20°-30°	933.3	21.2
30°-40°	913.9	20.8
40°-50°	699.6	15.9
50°-60°	466.1	10.6
60°-70°	254.4	5.8
70°-80°	106.0	2.4
80°-90°	30.0	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°	1930.8	43.9
0°-40°	2844.8	64.6
0°-60°	4010.5	91.1
0°-90°	4400.9	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4400.9	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	3020	3020	3020	3020	3020	
5°	2971	2941	2960	2967	2978	276
15°	2513	2504	2571	2641	2686	702
25°	1920	1925	2025	2113	2206	883
35°	1357	1364	1455	1553	1663	844
45°	814	829	884	951	1038	635
55°	468	487	516	535	579	424
65°	235	254	277	242	220	244
75°	118	118	107	74	50	126
85°	33	33	30	20	12	38
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	3020.1	3020.1	3020.1	3020.1	3020.1
2.5°	3027.5	3000.6	3007.4	3007.2	2998.9
5°	2971.1	2941.3	2960.5	2967.3	2977.7
7.5°	2860.8	2838.3	2873.3	2899.2	2920.2
10°	2775.0	2755.5	2800.1	2837.9	2865.1
12.5°	2675.3	2659.0	2714.3	2764.9	2800.4
15°	2512.6	2503.5	2570.9	2640.8	2686.2
17.5°	2338.4	2334.0	2411.3	2492.9	2551.0
20°	2219.7	2218.4	2303.2	2388.2	2455.6
22.5°	2099.9	2102.8	2191.9	2280.3	2357.0
25°	1920.2	1925.4	2024.9	2113.2	2206.4
27.5°	1754.0	1756.4	1859.2	1952.4	2051.9
30°	1640.6	1647.1	1747.9	1844.4	1948.0
32.5°	1527.2	1534.7	1633.4	1733.1	1838.8
35°	1357.0	1363.5	1455.1	1553.0	1663.1
37.5°	1181.5	1190.4	1271.7	1364.2	1472.6
40°	1068.1	1081.1	1152.9	1240.1	1346.4
42.5°	958.9	975.0	1041.6	1124.4	1220.2
45°	813.7	829.2	883.9	950.8	1037.6
47.5°	688.6	706.5	748.5	806.1	880.2
50°	617.5	634.4	673.2	715.9	785.8
52.5°	555.0	571.8	606.4	639.3	698.9
55°	467.8	487.2	515.5	535.1	579.1
57.5°	396.2	414.9	437.3	446.1	472.8
60°	348.5	369.3	389.6	388.6	402.9
62.5°	305.1	322.7	343.0	328.9	329.7
65°	234.6	254.0	277.0	242.0	220.0
67.5°	189.5	193.6	217.3	168.8	142.6
70°	168.3	168.3	174.9	130.7	108.7
72.5°	148.2	148.2	142.1	106.3	83.2
75°	117.9	117.9	107.3	73.7	50.4
77.5°	90.9	89.9	82.2	55.0	36.6
80°	72.9	72.9	66.3	43.4	29.2
82.5°	57.0	57.0	51.4	33.9	21.7
85°	33.1	33.1	30.5	19.7	11.9
87.5°	11.7	11.7	10.6	6.3	5.3
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)