

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: P519276

Luminaire Tested: **SQ4-WB-0U-050D-935-1D-UNV-STD-W-4**

Issue Date: 4/29/2021

Test Information

Test Method: LM-79-2019
Report Number: P519276
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-4
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

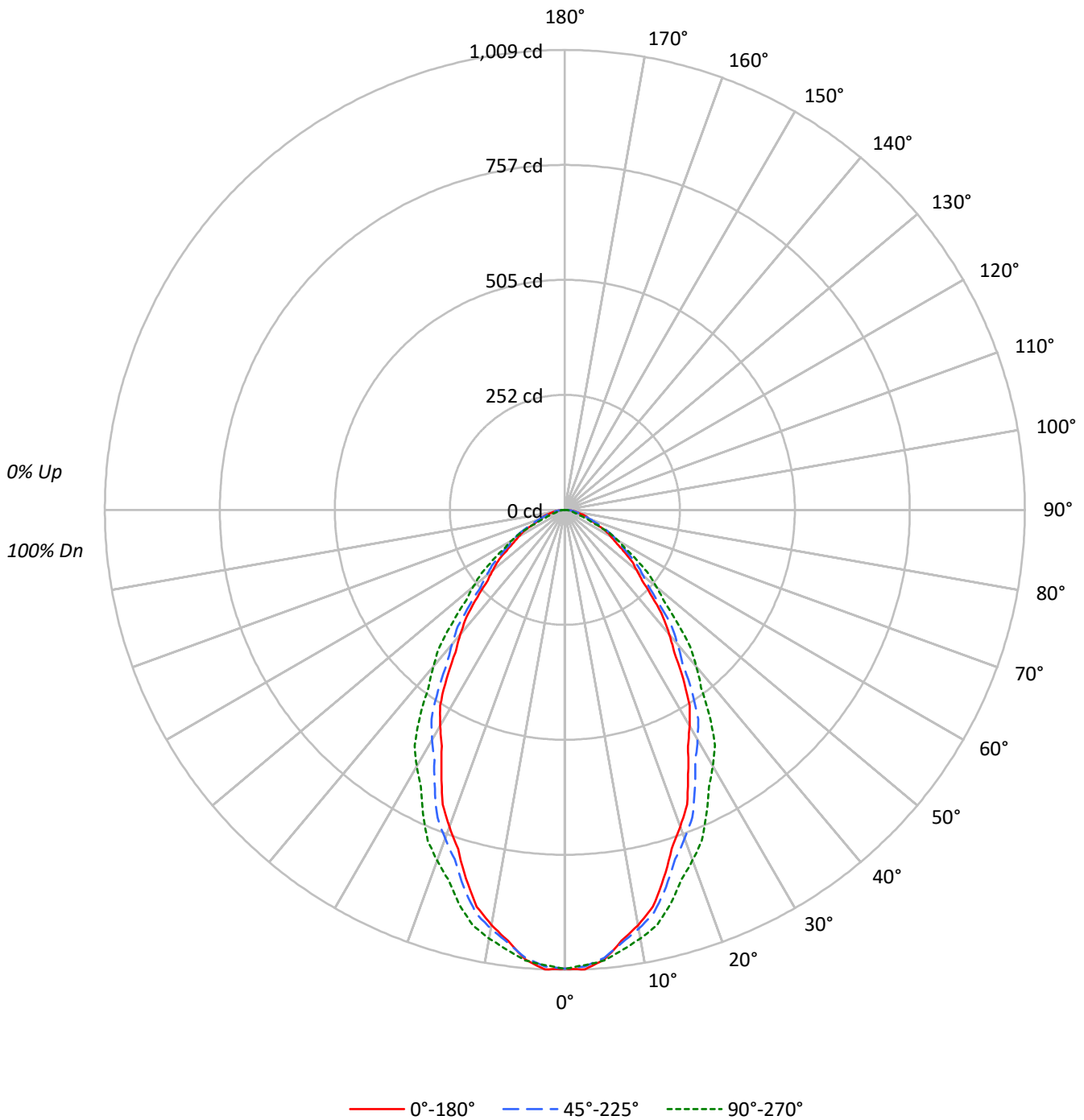
Lumens per Lamp: N/A
Luminaire Lumens: 1467.0 lumens
Efficiency: N/A
Efficacy: 90.6 lumens/watt
Spacing Criteria (0/90/45): 0.89 / 1 / 1.02
Luminous Opening: Rectangular (W 0.29' x L: 4' x H: 0')
CIE Type: Direct

Input Watts (W): 16.2
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	50	30	10	0	
RCR																						
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100				100
1	111	107	104	101	109	105	102	99	101	99	96	97	95	93	94	92	91	89				89
2	103	97	91	87	101	95	90	86	92	87	84	88	85	82	85	83	80	78				78
3	96	87	81	75	94	86	80	75	83	78	73	80	76	72	78	74	71	69				69
4	89	79	72	66	87	78	71	66	76	70	65	74	68	64	71	67	64	62				62
5	83	72	65	59	81	71	64	59	69	63	58	67	62	58	66	61	57	55				55
6	78	66	59	53	76	65	58	53	64	57	53	62	56	52	61	56	52	50				50
7	73	61	53	48	71	60	53	48	59	52	48	58	52	47	56	51	47	45				45
8	68	57	49	44	67	56	49	44	55	48	44	53	48	43	52	47	43	41				41
9	64	53	45	40	63	52	45	40	51	45	40	50	44	40	49	44	40	38				38
10	61	49	42	37	60	48	42	37	48	41	37	47	41	37	46	41	37	35				35

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	9288	9288	9288
5°	9173	9139	9193
10°	8666	8745	8947
15°	8000	8186	8553
20°	7265	7538	8036
25°	6516	6871	7487
30°	5826	6207	6917
35°	5094	5463	6244
40°	4288	4628	5405
45°	3539	3844	4513
50°	2954	3221	3759
55°	2508	2763	3104
60°	2144	2397	2478
65°	1707	2015	1600
70°	1513	1573	977
75°	1401	1276	599
80°	1291	1174	515
85°	1164	1080	423



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	92.3	6.3
10°-20°	240.2	16.4
20°-30°	311.1	21.2
30°-40°	304.6	20.8
40°-50°	233.2	15.9
50°-60°	155.4	10.6
60°-70°	84.8	5.8
70°-80°	35.3	2.4
80°-90°	10.0	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°	643.6	43.9
0°-40°	948.3	64.6
0°-60°	1336.8	91.1
0°-90°	1467.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1467.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1007	1007	1007	1007	1007	
5°	990	980	987	989	993	92
15°	838	834	857	880	895	234
25°	640	642	675	704	736	294
35°	452	454	485	518	554	281
45°	271	276	295	317	346	211
55°	156	162	172	178	193	141
65°	78	85	92	81	73	81
75°	39	39	36	25	17	42
85°	11	11	10	7	4	13
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1006.7	1006.7	1006.7	1006.7	1006.7
2.5°	1009.2	1000.2	1002.5	1002.4	999.6
5°	990.4	980.4	986.8	989.1	992.6
7.5°	953.6	946.1	957.8	966.4	973.4
10°	925.0	918.5	933.4	946.0	955.0
12.5°	891.8	886.3	904.8	921.6	933.5
15°	837.5	834.5	857.0	880.3	895.4
17.5°	779.5	778.0	803.8	831.0	850.3
20°	739.9	739.5	767.7	796.1	818.5
22.5°	700.0	700.9	730.6	760.1	785.7
25°	640.1	641.8	675.0	704.4	735.5
27.5°	584.7	585.5	619.7	650.8	684.0
30°	546.9	549.0	582.6	614.8	649.3
32.5°	509.1	511.6	544.5	577.7	612.9
35°	452.3	454.5	485.0	517.7	554.4
37.5°	393.8	396.8	423.9	454.7	490.9
40°	356.0	360.4	384.3	413.4	448.8
42.5°	319.6	325.0	347.2	374.8	406.7
45°	271.2	276.4	294.6	316.9	345.9
47.5°	229.5	235.5	249.5	268.7	293.4
50°	205.8	211.5	224.4	238.6	261.9
52.5°	185.0	190.6	202.1	213.1	233.0
55°	155.9	162.4	171.8	178.4	193.0
57.5°	132.1	138.3	145.8	148.7	157.6
60°	116.2	123.1	129.9	129.5	134.3
62.5°	101.7	107.6	114.3	109.6	109.9
65°	78.2	84.7	92.3	80.7	73.3
67.5°	63.2	64.5	72.4	56.3	47.5
70°	56.1	56.1	58.3	43.6	36.2
72.5°	49.4	49.4	47.4	35.4	27.7
75°	39.3	39.3	35.8	24.6	16.8
77.5°	30.3	30.0	27.4	18.3	12.2
80°	24.3	24.3	22.1	14.5	9.7
82.5°	19.0	19.0	17.1	11.3	7.2
85°	11.0	11.0	10.2	6.6	4.0
87.5°	3.9	3.9	3.5	2.1	1.8
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)