

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: P519313

Luminaire Tested: **SQ4-WB-0U-100D-835-1D-UNV-STD-W-6**

Issue Date: 4/29/2021

Test Information

Test Method: LM-79-2019
Report Number: P519313
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-835-1D-UNV-STD-W-6
Description: CORELITE SQ4 SUSPENDED LED LUMINAIRE WITH WHITE BAFFLE
DOWNLIGHT 1000 LUMENS PER FOOT
DIRECT ONLY
Light Source: 3500K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

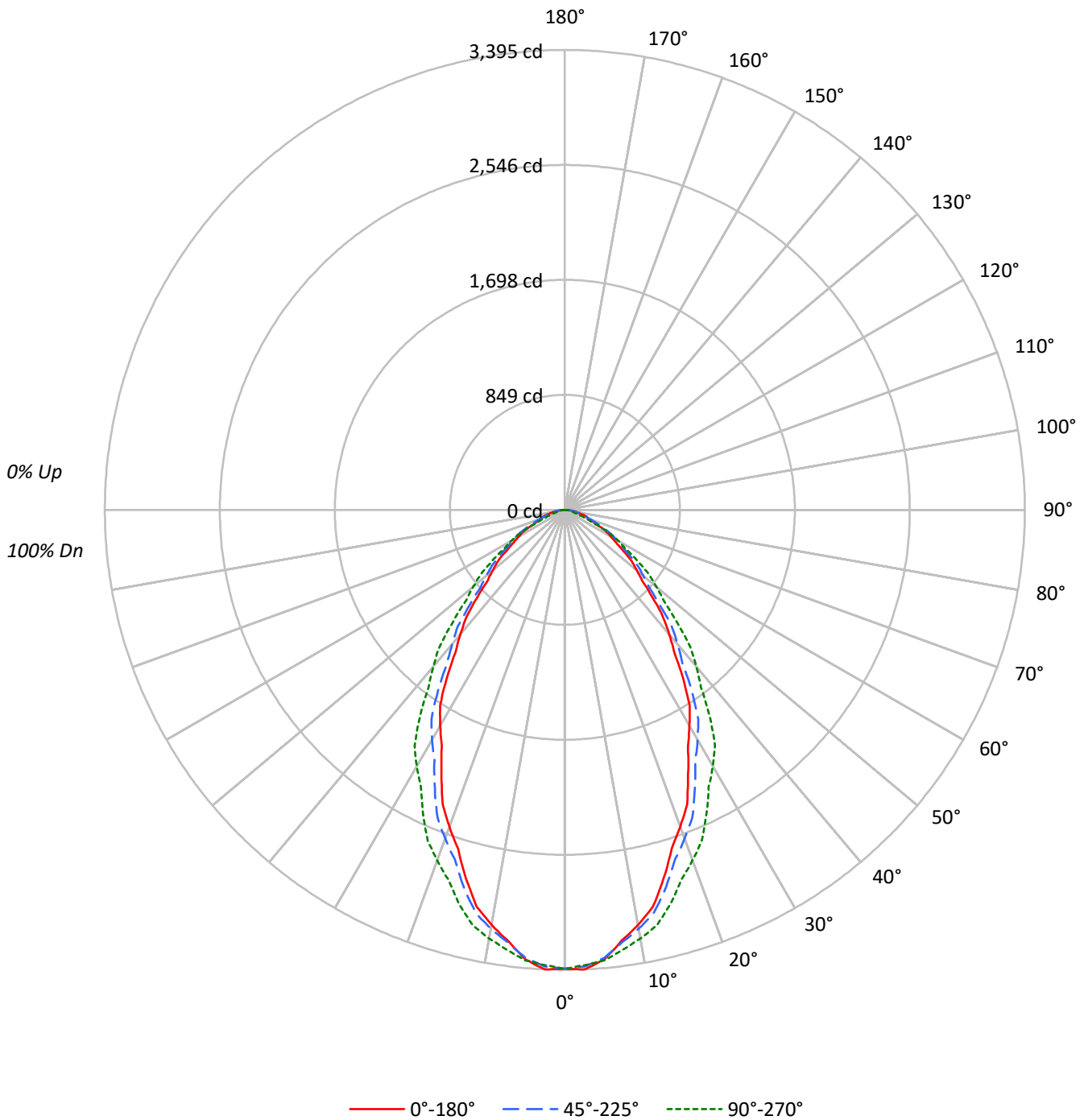
Lumens per Lamp: N/A
Luminaire Lumens: 4935.6 lumens
Efficiency: N/A
Efficacy: 89.3 lumens/watt
Spacing Criteria (0/90/45): 0.89 / 1 / 1.02
Luminous Opening: Rectangular (W 0.29' x L: 6' x H: 0')
CIE Type: Direct

Input Watts (W): 55.3
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°	20833	20833	20833
5°	20573	20500	20619
10°	19437	19614	20069
15°	17944	18360	19183
20°	16294	16907	18026
25°	14615	15412	16794
30°	13068	13923	15516
35°	11428	12254	14005
40°	9618	10382	12124
45°	7937	8623	10122
50°	6627	7225	8433
55°	5626	6199	6965
60°	4809	5375	5558
65°	3829	4520	3590
70°	3394	3528	2192
75°	3144	2861	1343
80°	2894	2632	1158
85°	2625	2414	946



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	310.7	6.3
10°-20°	808.1	16.4
20°-30°	1046.7	21.2
30°-40°	1025.0	20.8
40°-50°	784.6	15.9
50°-60°	522.8	10.6
60°-70°	285.3	5.8
70°-80°	118.9	2.4
80°-90°	33.7	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°	2165.4	43.9
0°-40°	3190.4	64.6
0°-60°	4497.8	91.1
0°-90°	4935.6	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4935.6	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	3387	3387	3387	3387	3387	
5°	3332	3299	3320	3328	3340	310
15°	2818	2808	2883	2962	3012	787
25°	2154	2159	2271	2370	2474	990
35°	1522	1529	1632	1742	1865	946
45°	912	930	991	1066	1164	712
55°	525	546	578	600	650	476
65°	263	285	311	271	247	273
75°	132	132	120	83	56	141
85°	37	37	34	22	13	42
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	3387.1	3387.1	3387.1	3387.1	3387.1
2.5°	3395.4	3365.2	3372.8	3372.6	3363.3
5°	3332.1	3298.7	3320.2	3327.9	3339.5
7.5°	3208.4	3183.1	3222.4	3251.5	3275.0
10°	3112.1	3090.3	3140.4	3182.7	3213.2
12.5°	3000.4	2982.1	3044.1	3100.8	3140.7
15°	2817.9	2807.7	2883.2	2961.7	3012.5
17.5°	2622.6	2617.6	2704.3	2795.9	2861.0
20°	2489.4	2487.9	2583.0	2678.4	2753.9
22.5°	2355.0	2358.2	2458.2	2557.3	2643.4
25°	2153.5	2159.3	2270.9	2369.9	2474.5
27.5°	1967.1	1969.8	2085.2	2189.6	2301.2
30°	1839.9	1847.2	1960.3	2068.5	2184.7
32.5°	1712.7	1721.1	1831.9	1943.7	2062.3
35°	1521.9	1529.1	1631.9	1741.7	1865.2
37.5°	1325.1	1335.0	1426.2	1530.0	1651.5
40°	1197.9	1212.4	1293.0	1390.8	1510.0
42.5°	1075.4	1093.4	1168.2	1261.0	1368.5
45°	912.5	930.0	991.3	1066.3	1163.7
47.5°	772.2	792.3	839.4	904.0	987.1
50°	692.6	711.5	755.0	802.9	881.3
52.5°	622.4	641.3	680.1	717.0	783.8
55°	524.6	546.4	578.1	600.1	649.5
57.5°	444.4	465.3	490.4	500.3	530.3
60°	390.9	414.1	436.9	435.8	451.8
62.5°	342.1	361.9	384.6	368.9	369.8
65°	263.1	284.9	310.6	271.4	246.7
67.5°	212.5	217.2	243.7	189.3	159.9
70°	188.7	188.7	196.2	146.6	121.9
72.5°	166.2	166.2	159.3	119.2	93.3
75°	132.3	132.3	120.4	82.6	56.5
77.5°	102.0	100.8	92.1	61.7	41.0
80°	81.7	81.7	74.3	48.7	32.7
82.5°	63.9	63.9	57.7	38.0	24.4
85°	37.2	37.2	34.2	22.1	13.4
87.5°	13.1	13.1	11.9	7.1	5.9
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)