

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: P519277

Luminaire Tested: **SQ4-WB-0U-050D-935-1D-UNV-STD-W-6**

Issue Date: 4/29/2021

Test Information

Test Method: LM-79-2019
Report Number: P519277
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-6
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

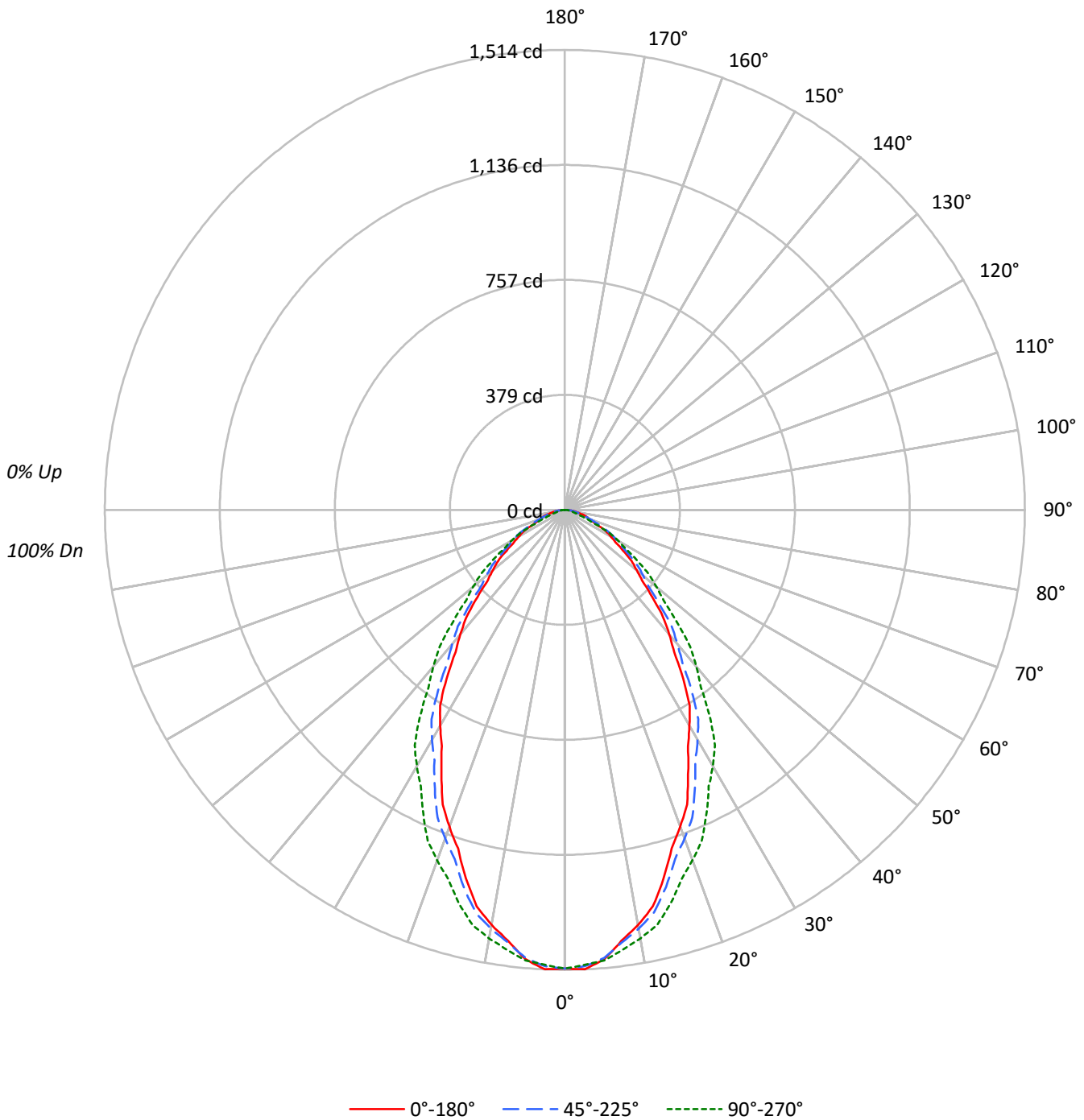
Lumens per Lamp: N/A
Luminaire Lumens: 2200.4 lumens
Efficiency: N/A
Efficacy: 82.4 lumens/watt
Spacing Criteria (0/90/45): 0.89 / 1 / 1.02
Luminous Opening: Rectangular (W 0.29' x L: 6' x H: 0')
CIE Type: Direct

Input Watts (W): 26.7
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	9139	9193
10°	8666	8745	8947
15°	8000	8185	8553
20°	7264	7538	8037
25°	6516	6871	7487
30°	5826	6207	6918
35°	5095	5463	6244
40°	4288	4629	5405
45°	3539	3845	4513
50°	2955	3221	3760
55°	2508	2765	3106
60°	2144	2396	2478
65°	1707	2016	1601
70°	1512	1574	977
75°	1402	1276	599
80°	1289	1172	517
85°	1172	1073	423



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	138.5	6.3
10°-20°	360.3	16.4
20°-30°	466.6	21.2
30°-40°	457.0	20.8
40°-50°	349.8	15.9
50°-60°	233.1	10.6
60°-70°	127.2	5.8
70°-80°	53.0	2.4
80°-90°	15.0	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°	965.4	43.9
0°-40°	1422.4	64.6
0°-60°	2005.2	91.1
0°-90°	2200.4	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2200.4	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1510	1510	1510	1510	1510	
5°	1486	1471	1480	1484	1489	138
15°	1256	1252	1285	1320	1343	351
25°	960	963	1012	1057	1103	442
35°	678	682	728	776	832	422
45°	407	415	442	475	519	317
55°	234	244	258	268	290	212
65°	117	127	138	121	110	122
75°	59	59	54	37	25	63
85°	17	17	15	10	6	19
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1510.1	1510.1	1510.1	1510.1	1510.1
2.5°	1513.8	1500.3	1503.7	1503.6	1499.5
5°	1485.5	1470.6	1480.2	1483.7	1488.9
7.5°	1430.4	1419.1	1436.6	1449.6	1460.1
10°	1387.5	1377.8	1400.1	1418.9	1432.5
12.5°	1337.7	1329.5	1357.1	1382.4	1400.2
15°	1256.3	1251.7	1285.4	1320.4	1343.1
17.5°	1169.2	1167.0	1205.7	1246.5	1275.5
20°	1109.8	1109.2	1151.6	1194.1	1227.8
22.5°	1050.0	1051.4	1095.9	1140.1	1178.5
25°	960.1	962.7	1012.4	1056.6	1103.2
27.5°	877.0	878.2	929.6	976.2	1026.0
30°	820.3	823.5	874.0	922.2	974.0
32.5°	763.6	767.3	816.7	866.6	919.4
35°	678.5	681.7	727.5	776.5	831.6
37.5°	590.8	595.2	635.8	682.1	736.3
40°	534.1	540.5	576.5	620.1	673.2
42.5°	479.5	487.5	520.8	562.2	610.1
45°	406.8	414.6	442.0	475.4	518.8
47.5°	344.3	353.2	374.2	403.0	440.1
50°	308.8	317.2	336.6	357.9	392.9
52.5°	277.5	285.9	303.2	319.7	349.5
55°	233.9	243.6	257.8	267.5	289.6
57.5°	198.1	207.4	218.7	223.1	236.4
60°	174.3	184.6	194.8	194.3	201.4
62.5°	152.5	161.3	171.5	164.5	164.9
65°	117.3	127.0	138.5	121.0	110.0
67.5°	94.8	96.8	108.7	84.4	71.3
70°	84.1	84.1	87.5	65.3	54.3
72.5°	74.1	74.1	71.0	53.1	41.6
75°	59.0	59.0	53.7	36.8	25.2
77.5°	45.5	44.9	41.1	27.5	18.3
80°	36.4	36.4	33.1	21.7	14.6
82.5°	28.5	28.5	25.7	17.0	10.9
85°	16.6	16.6	15.2	9.9	6.0
87.5°	5.8	5.8	5.3	3.2	2.7
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)