

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: P518648

Luminaire Tested: **SQ4-BB-0U-100D-930-1D-UNV-STD-W-4**

Issue Date: 4/29/2021

Test Information

Test Method: LM-79-2019
Report Number: P518648
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2009-966-12)
Test Lab: INNOVATION CENTER
Issue Date: 4/29/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: CORELITE
Catalog Number: SQ4-BB-0U-100D-930-1D-UNV-STD-W-4
Description: CORELITE SQ4 SUSPENDED LED LUMINAIRE WITH BLACK BAFFLE
DOWNLIGHT 1000 LUMENS PER FOOT
DIRECT ONLY
Light Source: 3000K CCT, 90 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

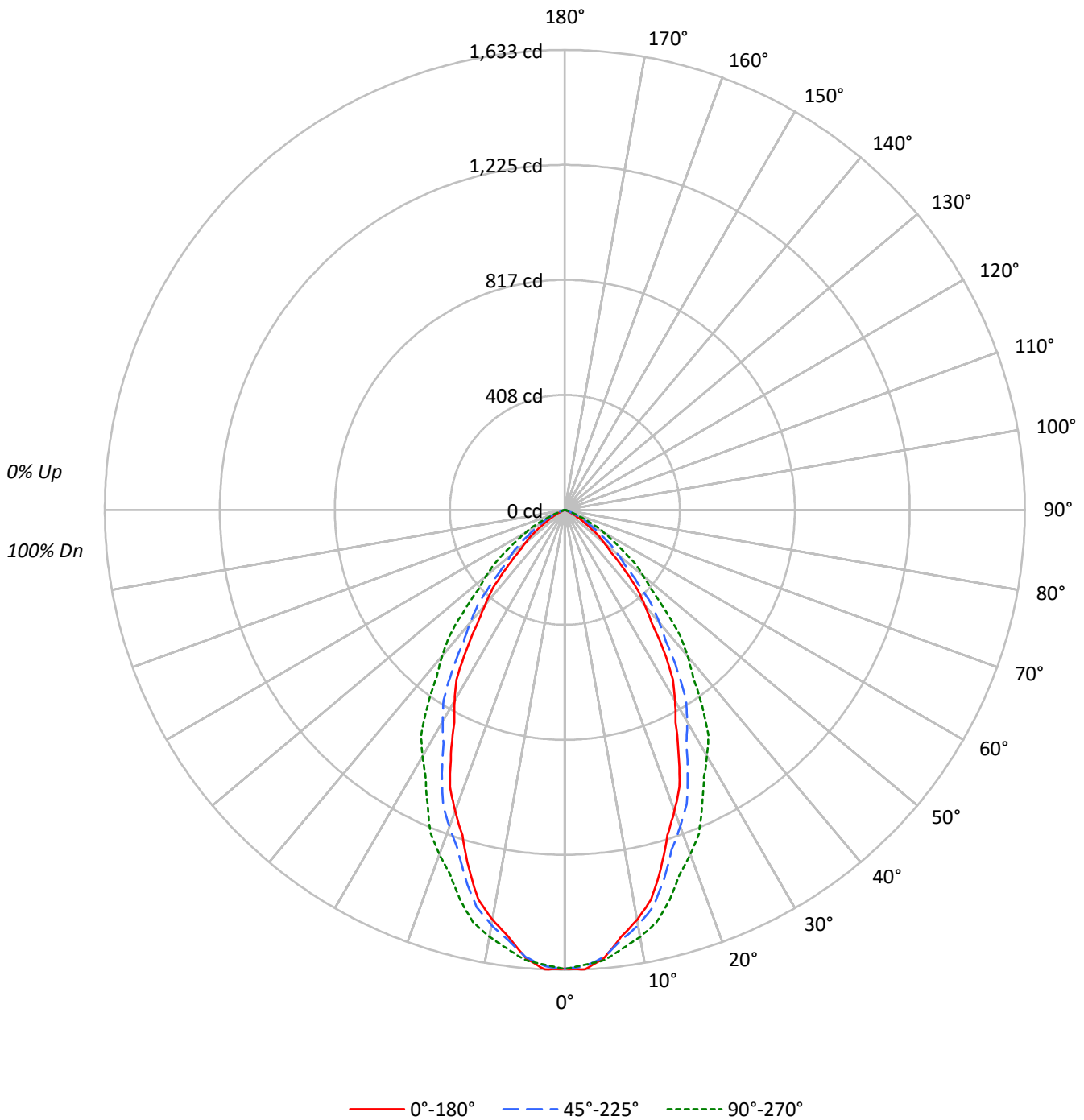
Lumens per Lamp: N/A
Luminaire Lumens: 1943.9 lumens
Efficiency: N/A
Efficacy: 59.3 lumens/watt
Spacing Criteria (0/90/45): 0.85 / 0.97 / 0.97
Luminous Opening: Rectangular (W 0.29' x L: 4' x H: 0')
CIE Type: Direct

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	112	109	106	104	110	107	104	102	103	101	99	99	98	96	96	94	93	91
2	106	100	95	91	103	98	94	90	95	91	88	92	89	86	89	86	84	82
3	99	91	85	81	97	90	84	80	87	82	79	85	81	77	82	79	76	74
4	93	84	77	72	91	82	76	72	80	75	71	78	74	70	76	72	69	67
5	87	77	70	65	85	76	70	65	74	68	64	72	67	64	71	66	63	61
6	82	71	64	59	80	70	64	59	69	63	58	67	62	58	66	61	58	56
7	77	66	59	54	75	65	59	54	64	58	53	62	57	53	61	56	53	51
8	72	61	54	50	71	61	54	49	59	53	49	58	53	49	57	52	49	47
9	68	57	50	46	67	57	50	46	56	50	46	55	49	45	54	49	45	44
10	65	54	47	42	63	53	47	42	52	46	42	51	46	42	51	46	42	41

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	15035	15035	15035
5°	14792	14756	14866
10°	13841	14026	14417
15°	12583	12982	13705
20°	11169	11750	12780
25°	9727	10498	11742
30°	8332	9247	10759
35°	6909	7849	9573
40°	5308	6276	8156
45°	3837	4752	6563
50°	2614	3542	5205
55°	1699	2562	4045
60°	974	1805	2925
65°	258	1102	1480
70°	127	340	426
75°	57	29	0
80°	43	0	0
85°	0	0	0



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	148.7	7.7
10°-20°	380.3	19.6
20°-30°	476.1	24.5
30°-40°	439.8	22.6
40°-50°	295.5	15.2
50°-60°	152.6	7.9
60°-70°	47.8	2.5
70°-80°	3.0	0.2
80°-90°	0.1	0.0
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°	1005.1	51.7
0°-40°	1444.9	74.3
0°-60°	1893.0	97.4
0°-90°	1943.9	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1943.9	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1630	1630	1630	1630	1630	
5°	1597	1581	1593	1599	1605	148
15°	1317	1313	1359	1405	1435	367
25°	956	963	1031	1102	1153	438
35°	613	629	697	779	850	380
45°	294	312	364	435	503	231
55°	106	123	159	204	252	99
65°	12	23	50	61	68	20
75°	2	2	1	0	0	2
85°	0	0	0	0	0	0
90°	0	0	0	0	0	0



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1629.6	1629.6	1629.6	1629.6	1629.6
2.5°	1633.3	1617.9	1622.0	1621.9	1617.6
5°	1597.2	1581.0	1593.3	1599.0	1605.1
7.5°	1529.8	1517.1	1540.6	1558.3	1571.1
10°	1477.4	1466.6	1497.1	1521.2	1538.9
12.5°	1416.9	1408.5	1445.4	1478.4	1501.1
15°	1317.4	1312.7	1359.1	1404.8	1434.8
17.5°	1210.8	1210.6	1263.6	1320.2	1356.5
20°	1137.6	1139.9	1196.7	1259.2	1301.6
22.5°	1064.5	1069.9	1130.5	1195.6	1244.2
25°	955.5	963.2	1031.2	1101.7	1153.4
27.5°	850.8	862.1	933.6	1006.9	1069.8
30°	782.1	795.2	868.0	945.1	1009.9
32.5°	714.6	730.1	801.1	882.7	948.7
35°	613.4	628.8	696.9	778.9	849.9
37.5°	508.8	523.9	590.5	671.2	747.8
40°	440.7	457.7	521.1	599.4	677.2
42.5°	378.9	395.8	455.5	532.4	605.9
45°	294.1	311.8	364.2	435.1	503.0
47.5°	223.7	243.0	289.0	353.2	415.0
50°	182.1	201.4	246.8	303.3	362.6
52.5°	148.7	167.3	208.3	261.6	316.0
55°	105.6	123.4	159.3	204.5	251.5
57.5°	73.0	88.3	120.5	158.2	195.0
60°	52.8	67.5	97.8	128.4	158.5
62.5°	35.2	48.6	78.2	101.7	121.9
65°	11.8	22.6	50.5	60.9	67.8
67.5°	6.0	7.2	26.5	28.0	30.3
70°	4.7	4.7	12.6	13.5	15.8
72.5°	3.5	3.5	5.0	6.5	6.9
75°	1.6	1.6	0.8	0.0	0.0
77.5°	0.8	0.8	0.6	0.0	0.0
80°	0.8	0.8	0.0	0.0	0.0
82.5°	0.2	0.2	0.0	0.0	0.0
85°	0.0	0.0	0.0	0.0	0.0
87.5°	0.0	0.0	0.0	0.0	0.0
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)