

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: P519261

Luminaire Tested: **SQ4-WB-0U-050D-830-1D-UNV-STD-W-6**

Issue Date: 4/29/2021

Test Information

Test Method: LM-79-2019
Report Number: P519261
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-830-1D-UNV-STD-W-6
Description: CORELITE SQ4 SUSPENDED LED LUMINAIRE WITH WHITE BAFFLE
DOWNLIGHT 500 LUMENS PER FOOT
DIRECT ONLY
Light Source: 3000K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

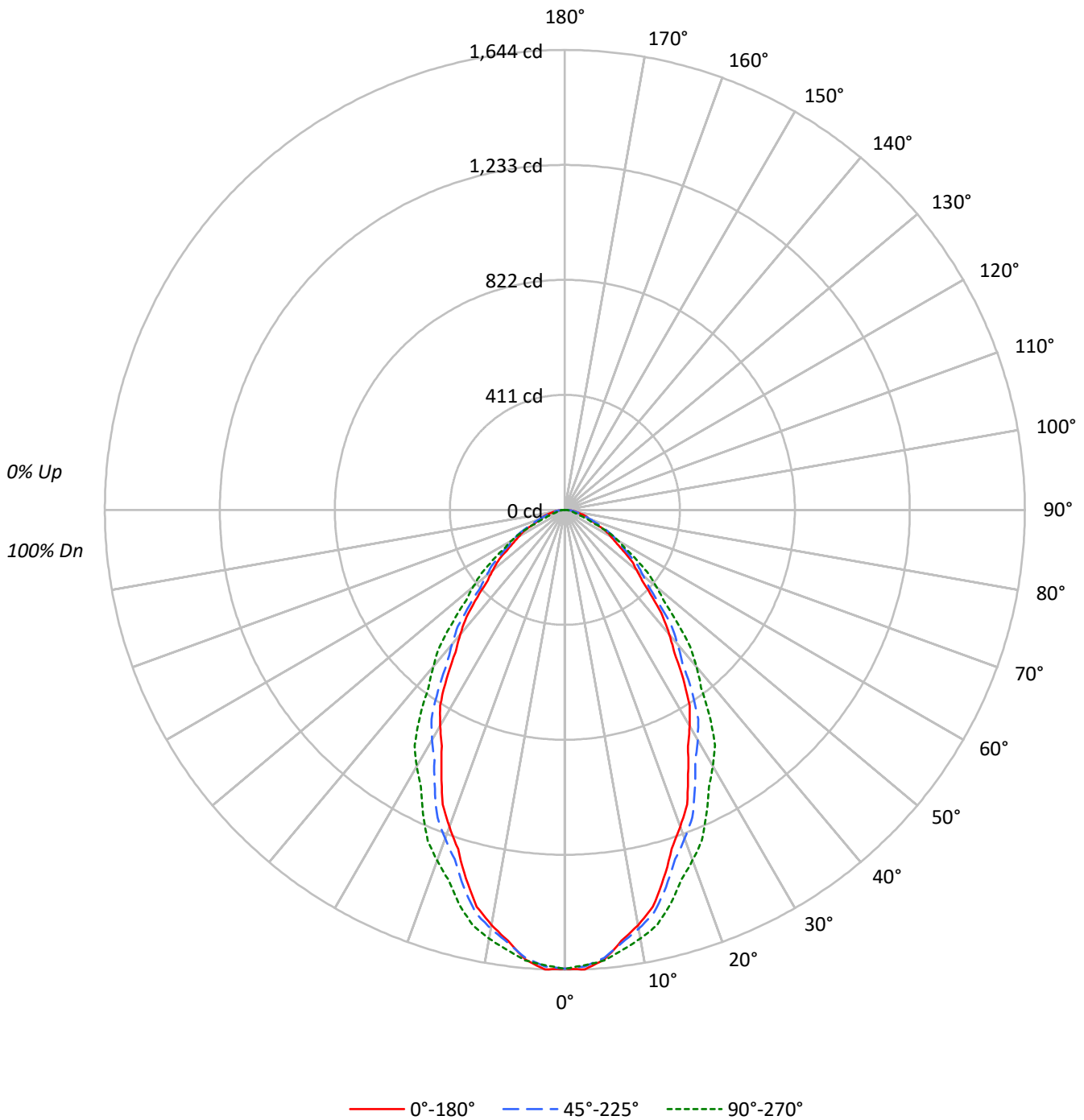
Lumens per Lamp: N/A
Luminaire Lumens: 2390.4 lumens
Efficiency: N/A
Efficacy: 89.5 lumens/watt
Spacing Criteria (0/90/45): 0.89 / 1 / 1.02
Luminous Opening: Rectangular (W 0.29' x L: 6' x H: 0')
CIE Type: Direct

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°	10090	10090	10090
5°	9964	9928	9986
10°	9414	9499	9720
15°	8690	8892	9291
20°	7891	8188	8730
25°	7078	7464	8133
30°	6329	6743	7515
35°	5535	5934	6783
40°	4659	5028	5872
45°	3845	4176	4903
50°	3209	3499	4084
55°	2725	3003	3373
60°	2329	2603	2692
65°	1854	2189	1739
70°	1644	1708	1061
75°	1523	1385	651
80°	1403	1275	560
85°	1270	1172	459



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	150.5	6.3
10°-20°	391.4	16.4
20°-30°	506.9	21.2
30°-40°	496.4	20.8
40°-50°	380.0	15.9
50°-60°	253.2	10.6
60°-70°	138.2	5.8
70°-80°	57.6	2.4
80°-90°	16.3	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°	1048.8	43.9
0°-40°	1545.2	64.6
0°-60°	2178.3	91.1
0°-90°	2390.4	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2390.4	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1640	1640	1640	1640	1640	
5°	1614	1598	1608	1612	1617	150
15°	1365	1360	1396	1434	1459	381
25°	1043	1046	1100	1148	1198	480
35°	737	741	790	844	903	458
45°	442	450	480	516	564	345
55°	254	265	280	291	314	230
65°	127	138	150	131	120	132
75°	64	64	58	40	27	68
85°	18	18	17	11	6	20
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1640.4	1640.4	1640.4	1640.4	1640.4
2.5°	1644.4	1629.8	1633.5	1633.4	1628.9
5°	1613.8	1597.6	1608.0	1611.7	1617.4
7.5°	1553.9	1541.6	1560.6	1574.7	1586.1
10°	1507.2	1496.7	1520.9	1541.4	1556.2
12.5°	1453.1	1444.2	1474.3	1501.8	1521.1
15°	1364.7	1359.8	1396.4	1434.4	1459.0
17.5°	1270.1	1267.7	1309.7	1354.1	1385.6
20°	1205.6	1204.9	1251.0	1297.2	1333.8
22.5°	1140.6	1142.1	1190.5	1238.6	1280.2
25°	1043.0	1045.8	1099.8	1147.8	1198.4
27.5°	952.7	954.0	1009.9	1060.5	1114.5
30°	891.1	894.6	949.4	1001.8	1058.1
32.5°	829.5	833.6	887.2	941.4	998.8
35°	737.1	740.6	790.3	843.5	903.3
37.5°	641.8	646.6	690.7	741.0	799.8
40°	580.2	587.2	626.2	673.6	731.3
42.5°	520.8	529.6	565.8	610.7	662.8
45°	442.0	450.4	480.1	516.4	563.6
47.5°	374.0	383.7	406.5	437.8	478.1
50°	335.4	344.6	365.7	388.8	426.8
52.5°	301.4	310.6	329.4	347.2	379.6
55°	254.1	264.6	280.0	290.6	314.5
57.5°	215.2	225.4	237.5	242.3	256.8
60°	189.3	200.6	211.6	211.1	218.8
62.5°	165.7	175.3	186.3	178.7	179.1
65°	127.4	138.0	150.4	131.4	119.5
67.5°	102.9	105.2	118.0	91.7	77.4
70°	91.4	91.4	95.0	71.0	59.0
72.5°	80.5	80.5	77.2	57.7	45.2
75°	64.1	64.1	58.3	40.0	27.4
77.5°	49.4	48.8	44.6	29.9	19.9
80°	39.6	39.6	36.0	23.6	15.8
82.5°	31.0	31.0	27.9	18.4	11.8
85°	18.0	18.0	16.6	10.7	6.5
87.5°	6.3	6.3	5.8	3.4	2.9
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)