

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: P564163

Luminaire Tested: **SQ4-PR1-0U-075D-830-1D-UNV-STD-W-6**

Issue Date: 7/30/2021

Test Information

Test Method: LM-79-2019
Report Number: P564163
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2106-289-4)
Test Lab: INNOVATION CENTER
Issue Date: 7/30/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: CORELITE
Catalog Number: SQ4-PR1-0U-075D-830-1D-UNV-STD-W-6
Description: CORELITE SQ4 SUSPENDED LED LUMINAIRE WITH PERCEIVE RIPPLE CONTINUOUS LENS.
DOWNLIGHT 750 LUMENS PER FOOT
DIRECT ONLY
Light Source: 3000K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

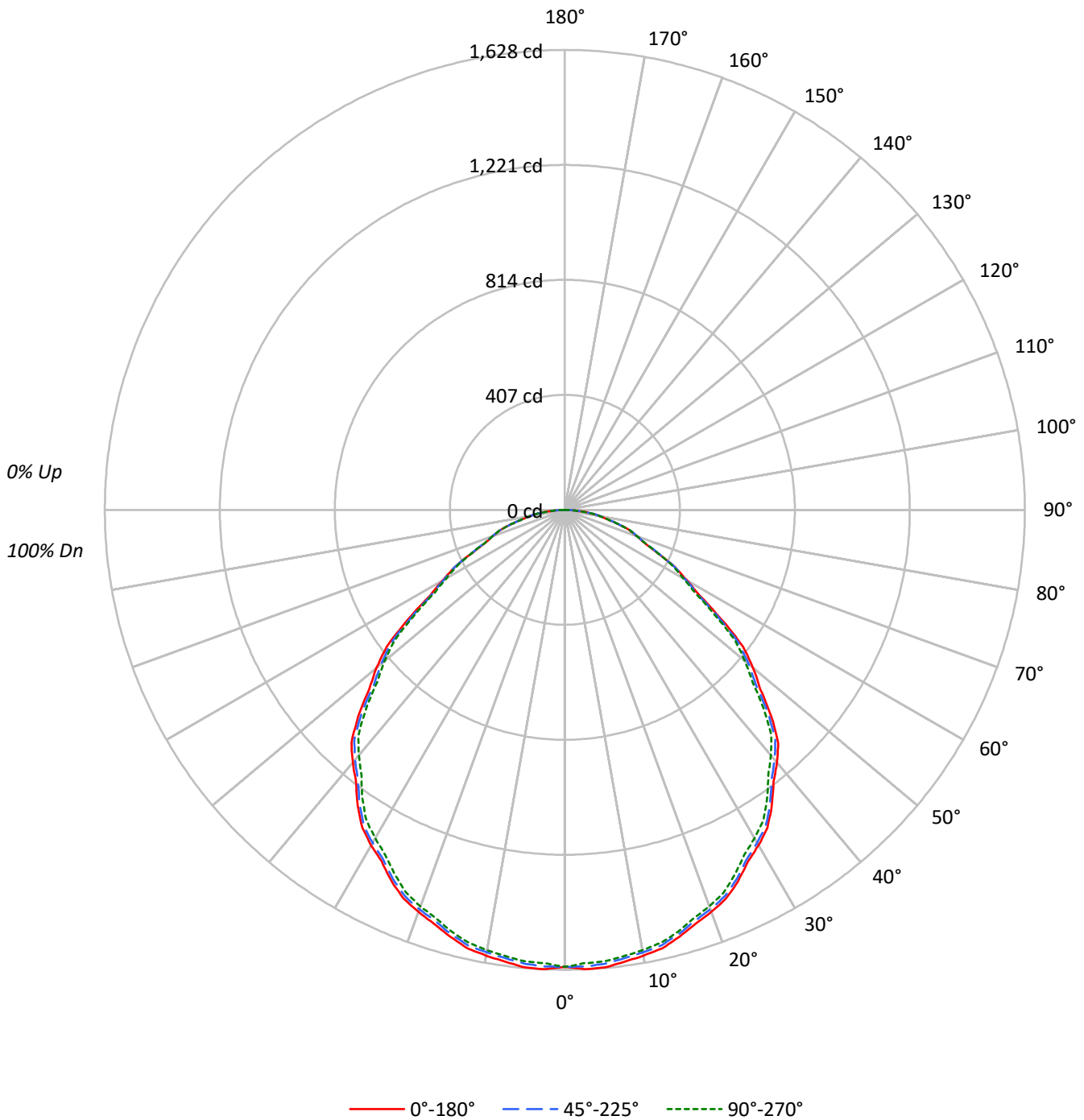
Lumens per Lamp: N/A
Luminaire Lumens: 4043.8 lumens
Efficiency: N/A
Efficacy: 100.1 lumens/watt
Spacing Criteria (0/90/45): 1.26 / 1.24 / 1.35
Luminous Opening: Rectangular (W 0.29' x L: 6' x H: 0')
CIE Type: Direct

Input Watts (W): 40.4
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				
1	110	105	101	98	107	103	99	96	99	96	93	95	92	90	91	89	87	85				
2	100	93	86	81	98	91	85	80	87	82	78	84	80	76	81	78	75	72				
3	92	82	74	68	90	80	73	68	78	71	66	75	70	65	72	68	64	62				
4	85	73	65	58	82	72	64	58	69	63	57	67	61	56	65	60	56	54				
5	78	66	57	51	76	65	57	50	63	55	50	61	54	49	59	53	49	47				
6	72	59	51	45	70	58	50	44	57	49	44	55	49	44	53	48	43	41				
7	67	54	46	40	65	53	45	39	52	44	39	50	44	39	49	43	39	37				
8	63	49	41	35	61	49	41	35	47	40	35	46	40	35	45	39	35	33				
9	58	45	37	32	57	45	37	32	44	37	32	43	36	32	42	36	31	30				
10	55	42	34	29	54	41	34	29	40	34	29	40	33	29	39	33	29	27				

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	9950	9950	9950
5°	10039	9962	9910
10°	10007	9938	9886
15°	9963	9901	9848
20°	9913	9849	9776
25°	9843	9777	9664
30°	9737	9668	9529
35°	9593	9510	9374
40°	9375	9274	9106
45°	8993	8835	8653
50°	8319	8119	7959
55°	7261	7097	6948
60°	6119	6067	5948
65°	5292	5312	5273
70°	4861	4886	4886
75°	4670	4670	4701
80°	4392	4442	4392
85°	3543	3931	3931



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	153.0	3.8
10°-20°	437.7	10.8
20°-30°	660.1	16.3
30°-40°	786.5	19.5
40°-50°	775.5	19.2
50°-60°	592.6	14.7
60°-70°	366.7	9.1
70°-80°	208.3	5.2
80°-90°	63.4	1.6
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°	1250.7	30.9
0°-40°	2037.3	50.4
0°-60°	3405.4	84.2
0°-90°	4043.8	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4043.8	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1618	1618	1618	1618	1618	
5°	1626	1608	1613	1608	1605	154
15°	1565	1548	1555	1549	1546	442
25°	1450	1433	1441	1425	1424	667
35°	1278	1263	1266	1250	1248	797
45°	1034	1020	1016	998	995	792
55°	677	666	662	651	648	607
65°	364	361	365	362	362	368
75°	196	196	196	198	198	207
85°	50	53	56	56	56	60
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1617.6	1617.6	1617.6	1617.6	1617.6
2.5°	1627.6	1613.4	1617.6	1614.1	1606.4
5°	1625.9	1608.2	1613.4	1607.8	1605.0
7.5°	1613.4	1596.0	1601.1	1595.5	1593.9
10°	1602.3	1585.9	1591.1	1585.5	1582.8
12.5°	1590.0	1572.6	1578.9	1572.1	1569.4
15°	1564.6	1548.3	1554.9	1549.3	1546.5
17.5°	1536.8	1519.3	1525.9	1519.4	1515.9
20°	1514.5	1498.1	1504.7	1494.9	1493.6
22.5°	1490.0	1473.6	1480.2	1467.1	1466.8
25°	1450.4	1432.7	1440.6	1425.3	1423.9
27.5°	1403.3	1387.0	1393.5	1377.9	1376.3
30°	1371.0	1354.6	1361.2	1344.4	1341.7
32.5°	1334.2	1318.9	1324.4	1307.7	1306.1
35°	1277.6	1262.6	1266.5	1249.7	1248.4
37.5°	1213.3	1199.6	1201.8	1183.4	1182.1
40°	1167.6	1153.9	1155.0	1135.5	1134.1
42.5°	1117.4	1103.8	1102.6	1083.1	1081.7
45°	1033.8	1020.2	1015.7	997.5	994.8
47.5°	938.5	924.9	916.5	901.7	899.8
50°	869.4	855.8	848.5	835.9	831.8
52.5°	794.7	781.1	774.9	763.4	759.3
55°	677.1	666.2	661.8	650.6	647.9
57.5°	565.4	558.0	556.8	545.9	544.8
60°	497.4	493.3	493.2	483.5	483.5
62.5°	439.4	436.4	438.6	432.2	431.1
65°	363.6	360.9	365.0	362.3	362.3
67.5°	303.7	303.7	306.2	305.1	305.1
70°	270.3	270.3	271.7	271.7	271.7
72.5°	240.2	239.1	242.7	242.7	241.6
75°	196.5	196.5	196.5	197.8	197.8
77.5°	153.0	153.3	154.4	154.1	153.0
80°	124.0	125.4	125.4	124.0	124.0
82.5°	95.0	96.4	96.4	96.1	95.0
85°	50.2	52.9	55.7	55.7	55.7
87.5°	14.5	18.8	22.3	22.3	21.2
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)