

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: P561963

Luminaire Tested: **SQ4-PR1-0U-100D-92765-1D-UNV-STD-W-4 (4500K)**

Issue Date: 7/30/2021

Test Information

Test Method: LM-79-2019
Report Number: P561963
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-100D-92765-1D-UNV-STD-W-4 (4500K)
Description: CORELITE SQ4 SUSPENDED LED LUMINAIRE WITH PERCEIVE RIPPLE CONTINUOUS LENS
DOWNLIGHT 1000 LUMENS PER FOOT
DIRECT ONLY
Light Source: 2700K/65000K CCT, 90 CRI LEDS, TUNED TO 4500K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

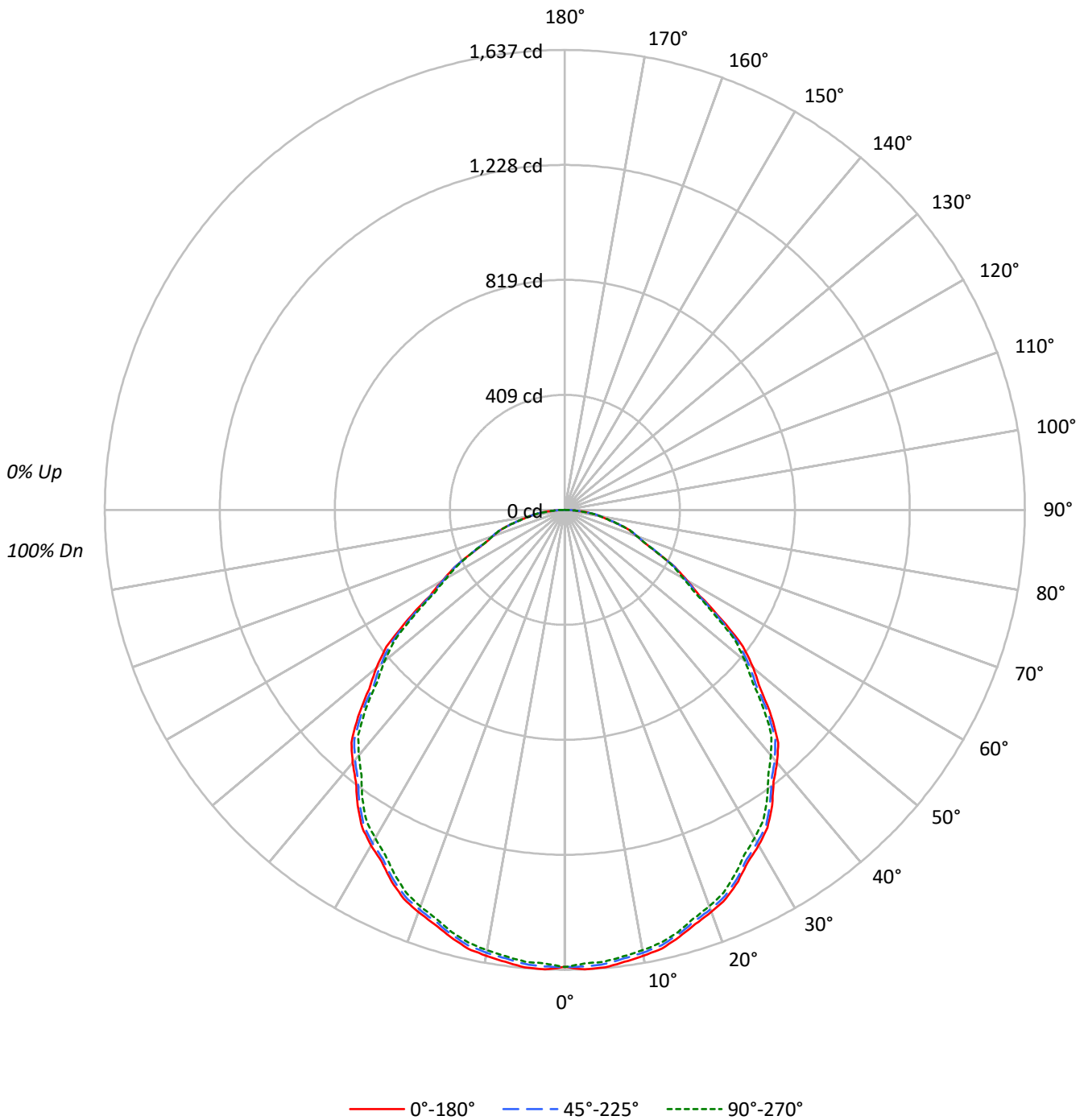
Lumens per Lamp: N/A
Luminaire Lumens: 4067.3 lumens
Efficiency: N/A
Efficacy: 96.2 lumens/watt
Spacing Criteria (0/90/45): 1.26 / 1.24 / 1.35
Luminous Opening: Rectangular (W 0.29' x L: 4' x H: 0')
CIE Type: Direct

Input Watts (W): 42.3
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	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°	15011	15011	15011
5°	15146	15029	14952
10°	15098	14993	14915
15°	15031	14938	14858
20°	14956	14860	14750
25°	14851	14751	14580
30°	14691	14586	14377
35°	14474	14347	14142
40°	14144	13991	13739
45°	13567	13330	13056
50°	12552	12249	12008
55°	10956	10708	10481
60°	9232	9154	8973
65°	7986	8016	7955
70°	7335	7372	7372
75°	7044	7044	7094
80°	6626	6700	6626
85°	5335	5939	5939



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	153.9	3.8
10°-20°	440.2	10.8
20°-30°	664.0	16.3
30°-40°	791.1	19.5
40°-50°	780.0	19.2
50°-60°	596.1	14.7
60°-70°	368.9	9.1
70°-80°	209.5	5.2
80°-90°	63.7	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°	1258.0	30.9
0°-40°	2049.1	50.4
0°-60°	3425.2	84.2
0°-90°	4067.3	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4067.3	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1627	1627	1627	1627	1627	
5°	1635	1618	1623	1617	1614	155
15°	1574	1557	1564	1558	1556	444
25°	1459	1441	1449	1434	1432	671
35°	1285	1270	1274	1257	1256	802
45°	1040	1026	1022	1003	1001	797
55°	681	670	666	654	652	610
65°	366	363	367	364	364	371
75°	198	198	198	199	199	209
85°	50	53	56	56	56	61
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1627.0	1627.0	1627.0	1627.0	1627.0
2.5°	1637.1	1622.8	1627.0	1623.5	1615.8
5°	1635.4	1617.6	1622.8	1617.1	1614.4
7.5°	1622.8	1605.3	1610.5	1604.8	1603.2
10°	1611.6	1595.1	1600.4	1594.7	1592.0
12.5°	1599.2	1581.7	1588.0	1581.2	1578.5
15°	1573.7	1557.3	1563.9	1558.3	1555.5
17.5°	1545.7	1528.2	1534.8	1528.3	1524.7
20°	1523.3	1506.9	1513.5	1503.6	1502.3
22.5°	1498.6	1482.2	1488.8	1475.6	1475.4
25°	1458.8	1441.0	1449.0	1433.6	1432.2
27.5°	1411.5	1395.0	1401.7	1385.9	1384.3
30°	1379.0	1362.5	1369.1	1352.3	1349.5
32.5°	1342.0	1326.6	1332.1	1315.3	1313.6
35°	1285.1	1270.0	1273.8	1257.0	1255.6
37.5°	1220.3	1206.6	1208.8	1190.3	1188.9
40°	1174.4	1160.6	1161.7	1142.1	1140.7
42.5°	1123.9	1110.2	1109.0	1089.4	1088.0
45°	1039.8	1026.1	1021.6	1003.3	1000.6
47.5°	944.0	930.3	921.8	906.9	905.0
50°	874.5	860.8	853.4	840.7	836.6
52.5°	799.3	785.6	779.4	767.9	763.7
55°	681.1	670.1	665.7	654.4	651.6
57.5°	568.7	561.3	560.0	549.0	547.9
60°	500.3	496.2	496.1	486.3	486.3
62.5°	442.0	439.0	441.2	434.7	433.6
65°	365.8	363.0	367.2	364.4	364.4
67.5°	305.5	305.5	308.0	306.9	306.9
70°	271.9	271.9	273.3	273.3	273.3
72.5°	241.6	240.5	244.1	244.1	243.0
75°	197.6	197.6	197.6	199.0	199.0
77.5°	153.9	154.1	155.3	155.0	153.9
80°	124.7	126.1	126.1	124.7	124.7
82.5°	95.6	96.9	97.0	96.7	95.6
85°	50.4	53.2	56.1	56.1	56.1
87.5°	14.6	19.0	22.4	22.4	21.3
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)