

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: P564230

Luminaire Tested: **SQ4-PR1-0U-125D-940-1D-UNV-STD-W-4**

Issue Date: 7/30/2021

Test Information

Test Method: LM-79-2019
Report Number: P564230
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-125D-940-1D-UNV-STD-W-4
Description: CORELITE SQ4 SUSPENDED LED LUMINAIRE WITH PERCEIVE RIPPLE CONTINUOUS LENS.
DOWNLIGHT 1250 LUMENS PER FOOT
DIRECT ONLY
Light Source: 4000K CCT, 90 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

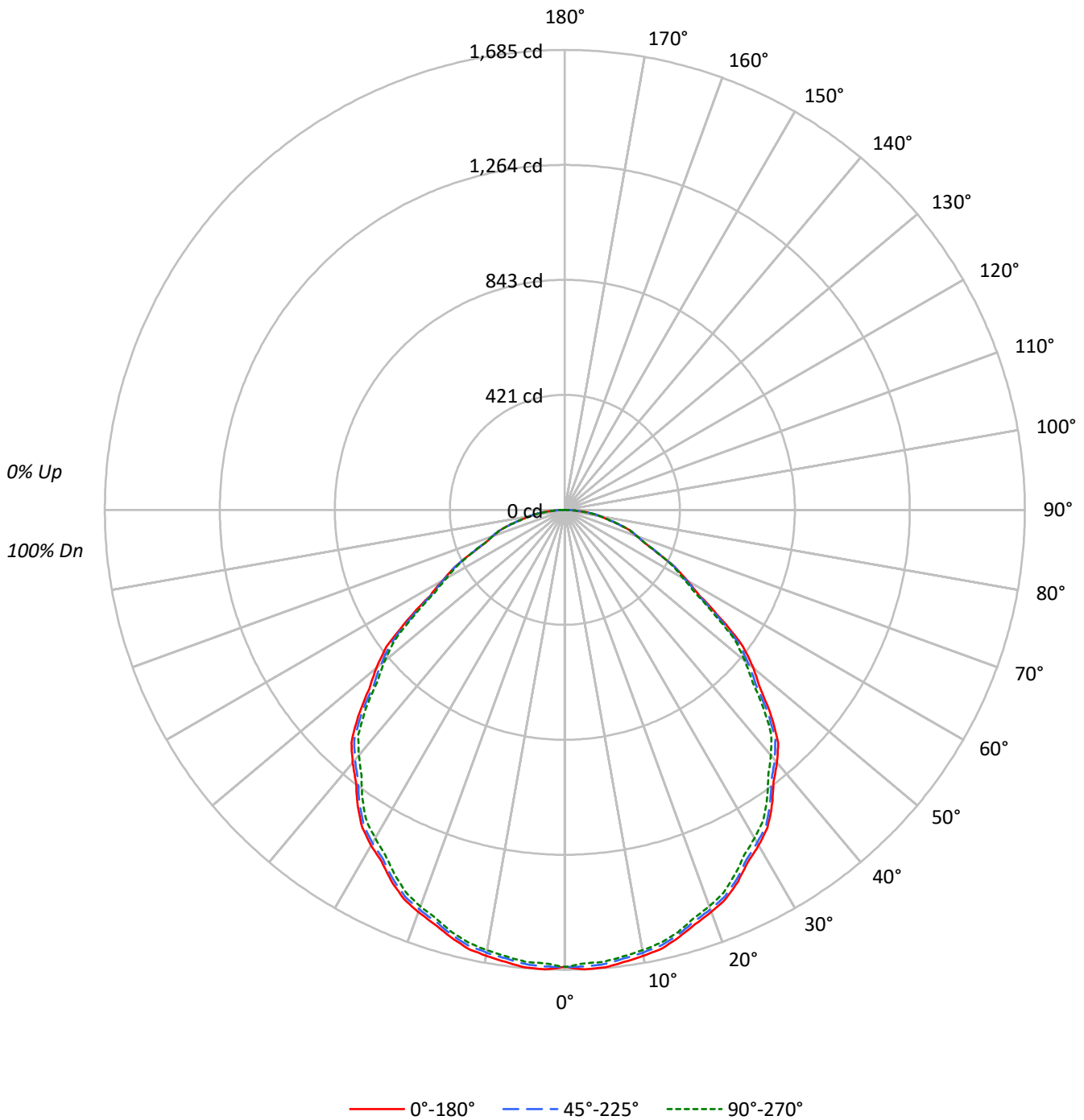
Lumens per Lamp: N/A
Luminaire Lumens: 4186.5 lumens
Efficiency: N/A
Efficacy: 96.0 lumens/watt
Spacing Criteria (0/90/45): 1.26 / 1.24 / 1.35
Luminous Opening: Rectangular (W 0.29' x L: 4' x H: 0')
CIE Type: Direct

Input Watts (W): 43.6
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°	15451	15451	15451
5°	15590	15470	15390
10°	15541	15433	15351
15°	15473	15376	15293
20°	15394	15295	15182
25°	15286	15183	15007
30°	15122	15014	14799
35°	14898	14768	14556
40°	14559	14402	14142
45°	13965	13720	13438
50°	12920	12609	12360
55°	11276	11022	10788
60°	9503	9422	9235
65°	8219	8250	8187
70°	7548	7588	7588
75°	7251	7251	7301
80°	6822	6896	6822
85°	5494	6108	6108



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	158.4	3.8
10°-20°	453.1	10.8
20°-30°	683.4	16.3
30°-40°	814.3	19.5
40°-50°	802.8	19.2
50°-60°	613.6	14.7
60°-70°	379.7	9.1
70°-80°	215.7	5.2
80°-90°	65.6	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°	1294.9	30.9
0°-40°	2109.2	50.4
0°-60°	3525.6	84.2
0°-90°	4186.5	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4186.5	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1675	1675	1675	1675	1675	
5°	1683	1665	1670	1664	1662	160
15°	1620	1603	1610	1604	1601	457
25°	1502	1483	1492	1476	1474	691
35°	1323	1307	1311	1294	1292	826
45°	1070	1056	1052	1033	1030	820
55°	701	690	685	674	671	628
65°	376	374	378	375	375	381
75°	203	203	203	205	205	215
85°	52	55	58	58	58	62
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1674.7	1674.7	1674.7	1674.7	1674.7
2.5°	1685.1	1670.4	1674.7	1671.0	1663.1
5°	1683.3	1665.0	1670.4	1664.5	1661.7
7.5°	1670.4	1652.3	1657.7	1651.9	1650.2
10°	1658.8	1641.9	1647.3	1641.4	1638.6
12.5°	1646.1	1628.1	1634.6	1627.6	1624.8
15°	1619.9	1602.9	1609.8	1603.9	1601.1
17.5°	1591.0	1573.0	1579.8	1573.1	1569.4
20°	1567.9	1551.0	1557.8	1547.7	1546.3
22.5°	1542.6	1525.6	1532.5	1518.9	1518.6
25°	1501.6	1483.3	1491.5	1475.6	1474.2
27.5°	1452.8	1435.9	1442.7	1426.5	1424.9
30°	1419.4	1402.4	1409.3	1391.9	1389.1
32.5°	1381.3	1365.5	1371.2	1353.8	1352.2
35°	1322.7	1307.2	1311.2	1293.8	1292.4
37.5°	1256.1	1242.0	1244.3	1225.2	1223.8
40°	1208.8	1194.7	1195.8	1175.6	1174.2
42.5°	1156.8	1142.7	1141.6	1121.3	1119.9
45°	1070.3	1056.2	1051.5	1032.7	1029.9
47.5°	971.6	957.5	948.8	933.5	931.5
50°	900.1	886.0	878.5	865.4	861.1
52.5°	822.8	808.7	802.3	790.4	786.1
55°	701.0	689.7	685.2	673.6	670.7
57.5°	585.3	577.7	576.4	565.1	564.0
60°	515.0	510.7	510.6	500.5	500.5
62.5°	454.9	451.8	454.1	447.4	446.3
65°	376.5	373.7	377.9	375.0	375.0
67.5°	314.5	314.5	317.1	315.9	315.9
70°	279.8	279.8	281.3	281.3	281.3
72.5°	248.7	247.6	251.3	251.2	250.1
75°	203.4	203.4	203.4	204.8	204.8
77.5°	158.4	158.7	159.8	159.5	158.4
80°	128.4	129.8	129.8	128.4	128.4
82.5°	98.4	99.8	99.8	99.5	98.4
85°	51.9	54.7	57.7	57.7	57.7
87.5°	15.0	19.5	23.1	23.1	21.9
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)