

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: P564886

Luminaire Tested: **SQ4-PW1-0U-125D-835-1D-UNV-STD-W-4**

Issue Date: 7/30/2021

Test Information

Test Method: LM-79-2019
Report Number: P564886
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2106-289-3)
Test Lab: INNOVATION CENTER
Issue Date: 7/30/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: CORELITE
Catalog Number: SQ4-PW1-0U-125D-835-1D-UNV-STD-W-4
Description: CORELITE SQ4 SUSPENDED LED LUMINAIRE WITH PERCEIVE WAVES CONTINUOUS LENS.
DOWNLIGHT 1250 LUMENS PER FOOT
DIRECT ONLY
Light Source: 3500K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

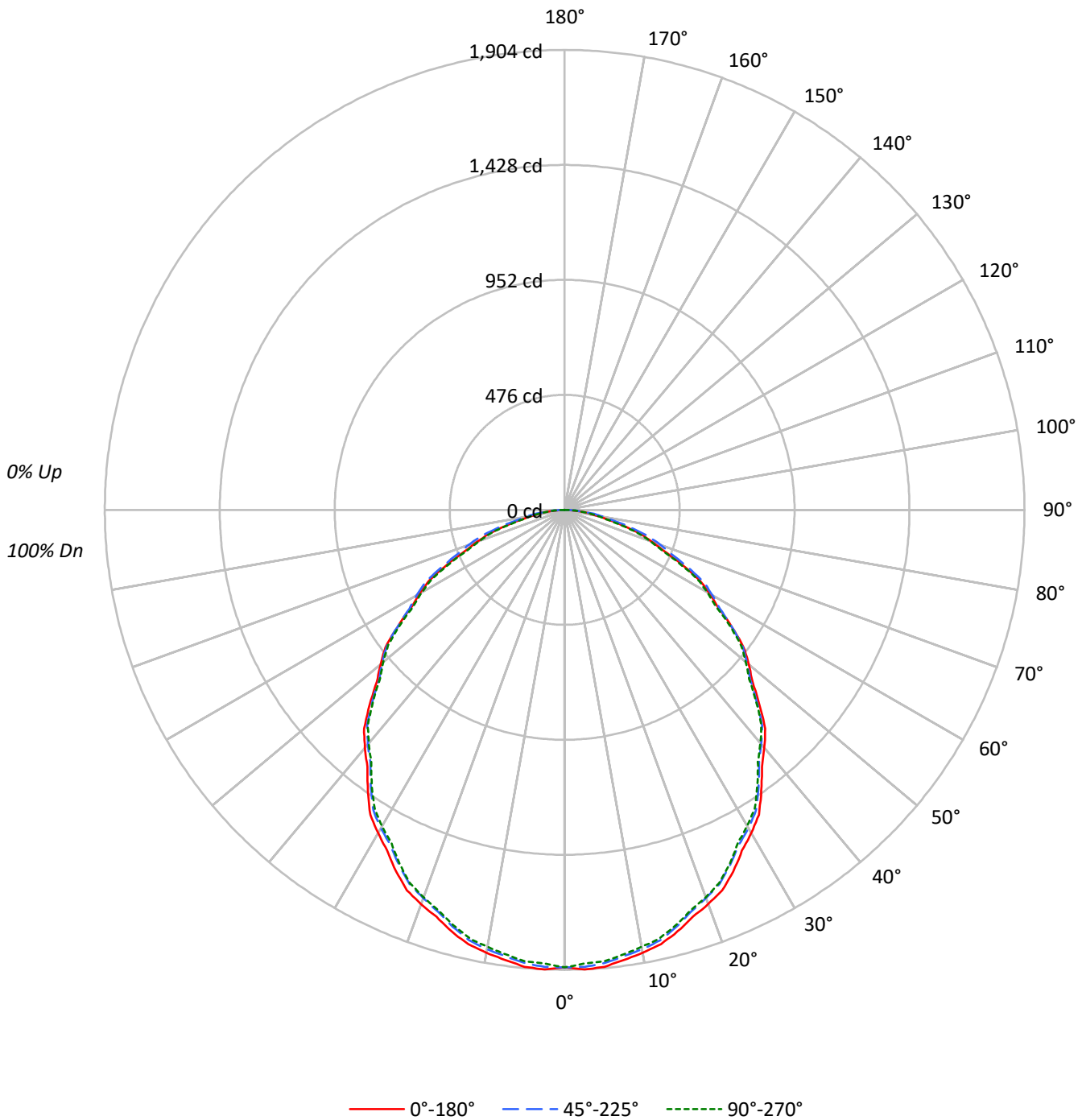
Lumens per Lamp: N/A
Luminaire Lumens: 4818.4 lumens
Efficiency: N/A
Efficacy: 110.5 lumens/watt
Spacing Criteria (0/90/45): 1.22 / 1.19 / 1.31
Luminous Opening: Rectangular (W 0.29' x L: 4' x H: 0')
CIE Type: Direct

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	0
RCR																		
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100
1	109	105	101	97	107	102	99	95	98	95	92	94	92	89	91	89	87	85
2	100	92	85	80	97	90	84	79	86	81	77	83	79	75	80	76	73	71
3	91	81	73	67	89	79	72	66	76	70	65	74	68	64	71	66	63	60
4	84	72	63	57	81	71	63	56	68	61	56	66	60	55	64	58	54	52
5	77	64	56	49	75	63	55	49	61	54	48	59	53	48	57	52	47	45
6	71	58	49	43	69	57	49	43	55	48	42	54	47	42	52	46	42	40
7	66	53	44	38	64	52	44	38	50	43	38	49	42	37	48	42	37	35
8	62	48	40	34	60	48	40	34	46	39	34	45	38	34	44	38	33	31
9	58	44	36	31	56	44	36	31	43	35	31	42	35	30	41	35	30	28
10	54	41	33	28	53	40	33	28	39	33	28	39	32	28	38	32	28	26

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	17473	17473	17473
5°	17586	17447	17370
10°	17445	17305	17211
15°	17261	17069	17006
20°	17054	16792	16760
25°	16816	16511	16460
30°	16461	16211	16105
35°	15994	15767	15674
40°	15495	15254	15192
45°	14891	14696	14631
50°	14274	14154	14059
55°	13608	13608	13393
60°	12778	13024	12562
65°	11693	12276	11402
70°	10307	11297	10038
75°	8801	10113	8566
80°	6827	8512	6912
85°	4414	6531	5833



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	178.3	3.7
10°-20°	503.5	10.4
20°-30°	746.8	15.5
30°-40°	873.9	18.1
40°-50°	870.0	18.1
50°-60°	751.3	15.6
60°-70°	540.8	11.2
70°-80°	283.6	5.9
80°-90°	70.3	1.5
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°	1428.7	29.7
0°-40°	2302.5	47.8
0°-60°	3923.8	81.4
0°-90°	4818.4	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4818.4	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1894	1894	1894	1894	1894	
5°	1899	1878	1884	1879	1876	180
15°	1807	1784	1787	1784	1780	509
25°	1652	1624	1622	1612	1617	760
35°	1420	1400	1400	1387	1392	888
45°	1141	1132	1126	1123	1121	881
55°	846	844	846	834	833	755
65°	536	552	562	540	522	531
75°	247	270	284	265	240	265
85°	42	55	62	58	55	56
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1893.8	1893.8	1893.8	1893.8	1893.8
2.5°	1904.5	1888.9	1893.8	1889.6	1880.5
5°	1898.8	1877.6	1883.8	1878.7	1875.5
7.5°	1879.5	1859.9	1864.5	1859.1	1857.1
10°	1862.1	1842.6	1847.1	1840.4	1837.1
12.5°	1842.1	1821.2	1825.8	1819.0	1817.1
15°	1807.1	1784.2	1787.0	1783.6	1780.4
17.5°	1766.4	1743.2	1743.7	1738.3	1737.7
20°	1737.0	1712.5	1710.3	1703.7	1707.0
22.5°	1705.0	1679.2	1676.9	1667.7	1672.3
25°	1651.9	1624.2	1621.9	1612.0	1616.9
27.5°	1590.5	1563.1	1563.1	1549.2	1554.4
30°	1545.1	1519.0	1521.7	1505.2	1511.7
32.5°	1497.0	1473.6	1475.0	1458.5	1465.0
35°	1420.0	1400.4	1399.9	1386.7	1391.6
37.5°	1341.2	1323.9	1321.2	1313.5	1314.8
40°	1286.5	1271.8	1266.5	1261.4	1261.4
42.5°	1229.1	1215.7	1210.4	1206.7	1205.4
45°	1141.3	1131.5	1126.3	1122.9	1121.3
47.5°	1054.5	1045.4	1040.9	1038.5	1036.9
50°	994.5	987.9	986.1	981.1	979.5
52.5°	934.4	930.5	928.7	922.4	920.7
55°	846.0	844.3	846.0	834.3	832.6
57.5°	753.9	756.5	761.9	746.1	742.2
60°	692.5	699.0	705.8	687.3	680.8
62.5°	629.7	640.2	649.7	628.5	619.4
65°	535.6	551.9	562.3	540.2	522.3
67.5°	444.8	465.1	477.5	453.7	433.5
70°	382.1	404.9	418.8	394.9	372.1
72.5°	327.4	352.8	364.1	341.5	318.7
75°	246.9	269.8	283.7	264.7	240.3
77.5°	175.2	196.7	208.2	191.8	171.5
80°	128.5	151.3	160.2	146.5	130.1
82.5°	91.1	110.0	116.1	107.9	96.8
85°	41.7	54.8	61.7	58.3	55.1
87.5°	10.7	19.8	25.4	25.4	26.7
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)