

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: P564839

Luminaire Tested: **SQ4-PW1-0U-075D-835-1D-UNV-STD-W-6**

Issue Date: 7/30/2021

**Test Information**

Test Method: LM-79-2019  
Report Number: P564839  
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-075D-835-1D-UNV-STD-W-6  
Description: CORELITE SQ4 SUSPENDED LED LUMINAIRE WITH PERCEIVE WAVES CONTINUOUS LENS.  
DOWNLIGHT 750 LUMENS PER FOOT  
DIRECT ONLY  
Light Source: 3500K CCT, 80 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

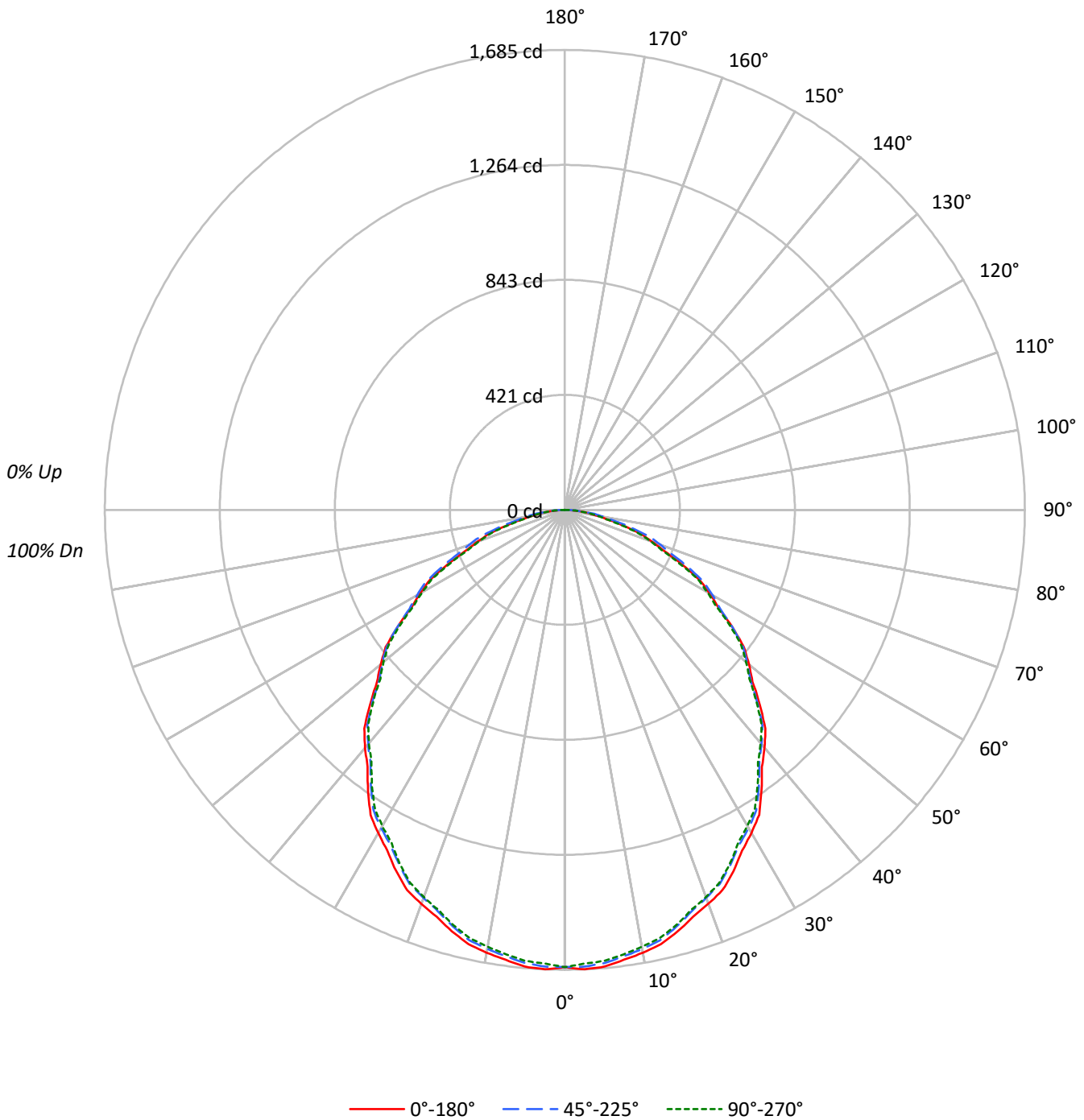
Lumens per Lamp: N/A  
Luminaire Lumens: 4262.6 lumens  
Efficiency: N/A  
Efficacy: 105.5 lumens/watt  
Spacing Criteria (0/90/45): 1.22 / 1.19 / 1.31  
Luminous Opening: Rectangular (W 0.29' x L: 6' x H: 0')  
CIE Type: Direct

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

**AVERAGE LUMINANCE (cd/sqm):**

	0°	45°	90°
0°	10305	10305	10305
5°	10372	10289	10244
10°	10289	10205	10150
15°	10180	10067	10029
20°	10058	9903	9884
25°	9917	9737	9707
30°	9708	9561	9498
35°	9432	9299	9244
40°	9138	8996	8960
45°	8782	8667	8628
50°	8419	8348	8291
55°	8026	8026	7899
60°	7536	7681	7408
65°	6896	7239	6724
70°	6079	6663	5920
75°	5193	5963	5052
80°	4027	5019	4077
85°	2604	3853	3437



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	157.8	3.7
10°-20°	445.4	10.4
20°-30°	660.7	15.5
30°-40°	773.1	18.1
40°-50°	769.6	18.1
50°-60°	664.6	15.6
60°-70°	478.4	11.2
70°-80°	250.9	5.9
80°-90°	62.2	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°	1263.9	29.7
0°-40°	2036.9	47.8
0°-60°	3471.1	81.4
0°-90°	4262.6	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4262.6	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	1675	1675	1675	1675	1675	
5°	1680	1661	1666	1662	1659	159
15°	1599	1578	1581	1578	1575	451
25°	1461	1437	1435	1426	1430	672
35°	1256	1239	1238	1227	1231	785
45°	1010	1001	996	993	992	779
55°	748	747	748	738	737	668
65°	474	488	497	478	462	470
75°	218	239	251	234	213	234
85°	37	48	55	52	49	50
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	1675.4	1675.4	1675.4	1675.4	1675.4
2.5°	1684.8	1671.0	1675.4	1671.6	1663.6
5°	1679.8	1661.0	1666.5	1662.0	1659.1
7.5°	1662.7	1645.4	1649.4	1644.6	1642.9
10°	1647.3	1630.0	1634.0	1628.1	1625.2
12.5°	1629.6	1611.1	1615.1	1609.2	1607.5
15°	1598.6	1578.4	1580.9	1577.9	1575.0
17.5°	1562.6	1542.1	1542.5	1537.8	1537.2
20°	1536.6	1515.0	1513.0	1507.2	1510.0
22.5°	1508.3	1485.5	1483.5	1475.3	1479.3
25°	1461.3	1436.8	1434.8	1426.0	1430.3
27.5°	1407.0	1382.8	1382.8	1370.5	1375.1
30°	1366.9	1343.8	1346.2	1331.6	1337.3
32.5°	1324.4	1303.6	1304.9	1290.2	1296.0
35°	1256.2	1238.8	1238.4	1226.7	1231.1
37.5°	1186.5	1171.2	1168.8	1162.0	1163.2
40°	1138.1	1125.1	1120.4	1115.9	1115.9
42.5°	1087.3	1075.5	1070.8	1067.5	1066.3
45°	1009.6	1001.0	996.4	993.4	991.9
47.5°	932.9	924.8	920.8	918.7	917.2
50°	879.8	874.0	872.4	867.9	866.5
52.5°	826.6	823.1	821.6	816.0	814.5
55°	748.4	746.9	748.4	738.0	736.6
57.5°	666.9	669.2	674.0	660.0	656.6
60°	612.6	618.4	624.4	608.0	602.2
62.5°	557.1	566.3	574.8	556.0	547.9
65°	473.8	488.3	497.4	477.9	462.0
67.5°	393.5	411.4	422.5	401.4	383.5
70°	338.0	358.2	370.5	349.4	329.2
72.5°	289.6	312.1	322.1	302.1	281.9
75°	218.5	238.7	250.9	234.2	212.6
77.5°	155.0	174.0	184.2	169.6	151.7
80°	113.7	133.9	141.7	129.6	115.1
82.5°	80.6	97.3	102.7	95.4	85.6
85°	36.9	48.4	54.6	51.6	48.7
87.5°	9.4	17.5	22.4	22.5	23.6
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)