

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: P564840

Luminaire Tested: **SQ4-PW1-0U-075D-835-1D-UNV-STD-W-8**

Issue Date: 7/30/2021

Test Information

Test Method: LM-79-2019
Report Number: P564840
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-8
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

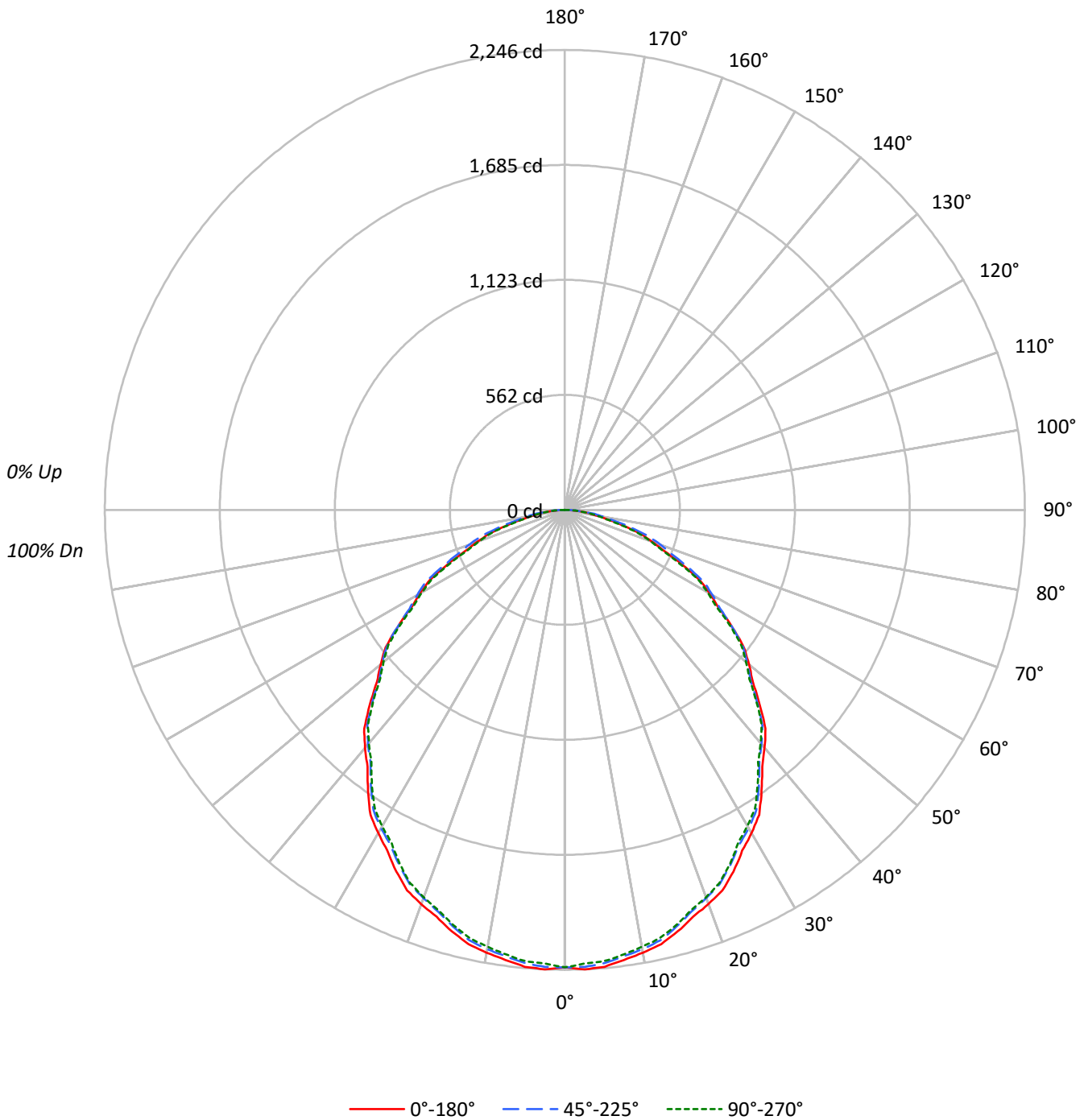
Lumens per Lamp: N/A
Luminaire Lumens: 5683.4 lumens
Efficiency: N/A
Efficacy: 104.5 lumens/watt
Spacing Criteria (0/90/45): 1.22 / 1.19 / 1.31
Luminous Opening: Rectangular (W 0.29' x L: 8' x H: 0')
CIE Type: Direct

Input Watts (W): 54.4
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	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°	10305	10305	10305
5°	10371	10289	10244
10°	10289	10206	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	8629
50°	8418	8348	8291
55°	8025	8025	7899
60°	7536	7681	7409
65°	6896	7240	6724
70°	6079	6663	5920
75°	5192	5964	5051
80°	4025	5018	4078
85°	2604	3853	3435



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	210.3	3.7
10°-20°	593.9	10.4
20°-30°	880.9	15.5
30°-40°	1030.8	18.1
40°-50°	1026.2	18.1
50°-60°	886.1	15.6
60°-70°	637.9	11.2
70°-80°	334.5	5.9
80°-90°	82.9	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°	1685.1	29.6
0°-40°	2715.9	47.8
0°-60°	4628.2	81.4
0°-90°	5683.4	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5683.4	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2234	2234	2234	2234	2234	
5°	2240	2215	2222	2216	2212	212
15°	2132	2104	2108	2104	2100	601
25°	1948	1916	1913	1901	1907	896
35°	1675	1652	1651	1636	1641	1047
45°	1346	1335	1328	1324	1323	1039
55°	998	996	998	984	982	890
65°	632	651	663	637	616	626
75°	291	318	335	312	283	312
85°	49	65	73	69	65	67
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2233.8	2233.8	2233.8	2233.8	2233.8
2.5°	2246.4	2227.9	2233.8	2228.9	2218.1
5°	2239.7	2214.7	2222.0	2216.0	2212.2
7.5°	2216.9	2193.8	2199.2	2192.8	2190.5
10°	2196.4	2173.3	2178.7	2170.8	2166.9
12.5°	2172.8	2148.2	2153.5	2145.6	2143.3
15°	2131.5	2104.5	2107.9	2103.8	2100.0
17.5°	2083.5	2056.1	2056.7	2050.4	2049.6
20°	2048.8	2020.0	2017.3	2009.5	2013.4
22.5°	2011.0	1980.6	1978.0	1967.1	1972.5
25°	1948.4	1915.7	1913.0	1901.3	1907.1
27.5°	1876.0	1843.7	1843.7	1827.3	1833.5
30°	1822.5	1791.7	1794.9	1775.4	1783.1
32.5°	1765.8	1738.1	1739.8	1720.3	1728.0
35°	1674.9	1651.8	1651.3	1635.6	1641.4
37.5°	1582.0	1561.6	1558.4	1549.3	1550.9
40°	1517.4	1500.1	1493.8	1487.9	1487.9
42.5°	1449.7	1433.9	1427.7	1423.3	1421.8
45°	1346.2	1334.7	1328.5	1324.5	1322.6
47.5°	1243.9	1233.1	1227.7	1224.9	1223.0
50°	1173.0	1165.3	1163.2	1157.2	1155.3
52.5°	1102.2	1097.5	1095.5	1087.9	1086.0
55°	997.8	995.9	997.8	984.0	982.1
57.5°	889.2	892.3	898.6	880.0	875.4
60°	816.8	824.5	832.5	810.7	803.0
62.5°	742.8	755.1	766.4	741.3	730.6
65°	631.8	651.0	663.3	637.2	616.0
67.5°	524.7	548.6	563.3	535.2	511.3
70°	450.7	477.6	494.0	465.8	438.9
72.5°	386.1	416.2	429.4	402.9	375.9
75°	291.3	318.2	334.6	312.3	283.4
77.5°	206.7	232.1	245.6	226.2	202.3
80°	151.5	178.5	188.9	172.8	153.5
82.5°	107.5	129.8	137.0	127.2	114.2
85°	49.2	64.6	72.8	68.8	64.9
87.5°	12.6	23.4	29.9	30.0	31.5
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)