

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: P564867

Luminaire Tested: **SQ4-PW1-0U-100D-840-1D-UNV-STD-W-6**

Issue Date: 7/30/2021

Test Information

Test Method: LM-79-2019
Report Number: P564867
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-100D-840-1D-UNV-STD-W-6
Description: CORELITE SQ4 SUSPENDED LED LUMINAIRE WITH PERCEIVE WAVES CONTINUOUS LENS.
DOWNLIGHT 1000 LUMENS PER FOOT
DIRECT ONLY
Light Source: 4000K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

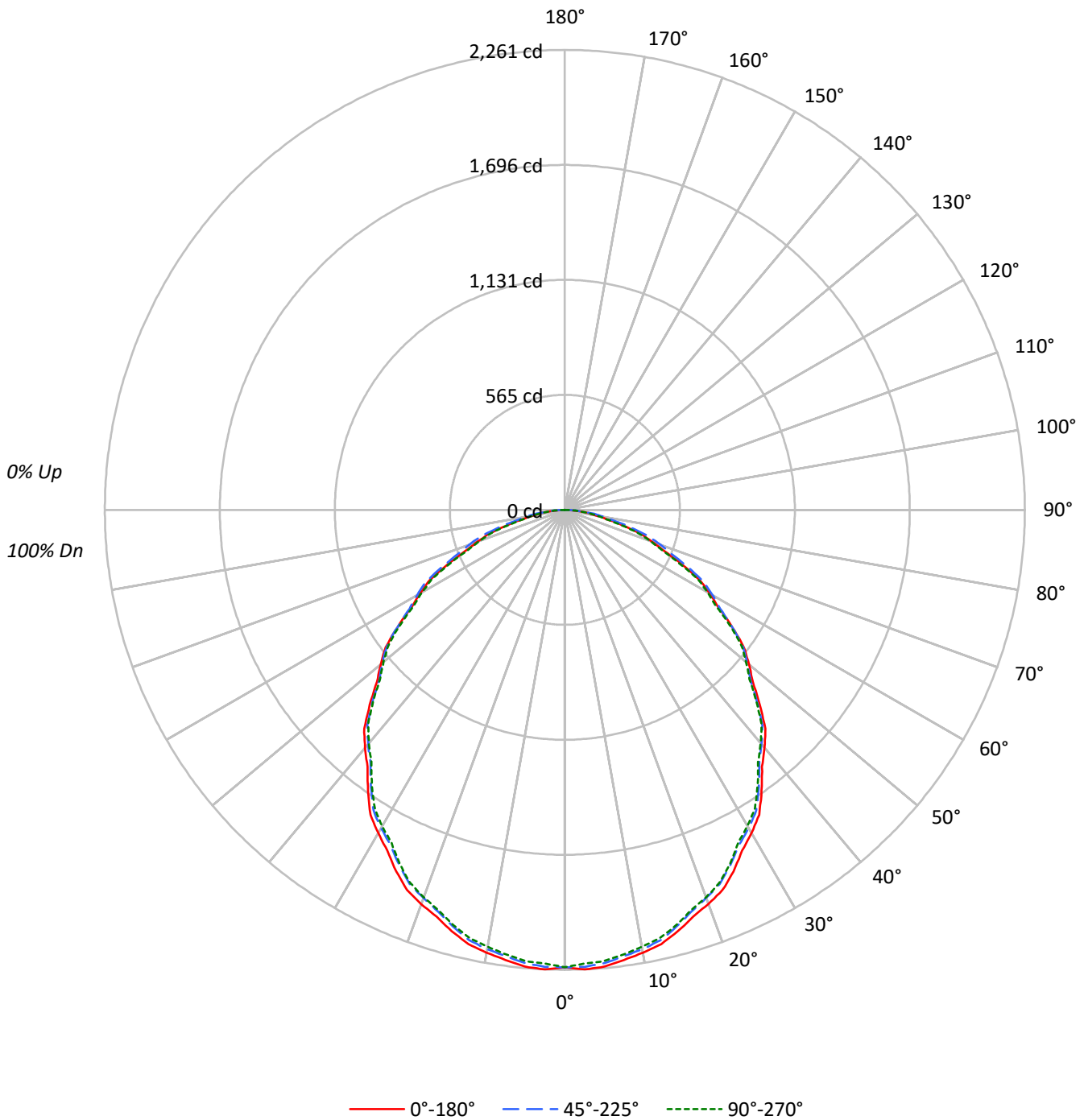
Lumens per Lamp: N/A
Luminaire Lumens: 5720.7 lumens
Efficiency: N/A
Efficacy: 103.4 lumens/watt
Spacing Criteria (0/90/45): 1.22 / 1.19 / 1.31
Luminous Opening: Rectangular (W 0.29' x L: 6' x H: 0')
CIE Type: Direct

Input Watts (W): 55.3
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	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°	13830	13830	13830
5°	13919	13809	13748
10°	13808	13697	13622
15°	13662	13511	13460
20°	13498	13291	13265
25°	13310	13068	13028
30°	13029	12832	12747
35°	12659	12480	12406
40°	12264	12073	12025
45°	11787	11632	11580
50°	11298	11203	11128
55°	10771	10771	10600
60°	10113	10309	9943
65°	9255	9716	9025
70°	8159	8942	7945
75°	6968	8004	6780
80°	5402	6737	5473
85°	3493	5173	4615



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	211.7	3.7
10°-20°	597.8	10.4
20°-30°	886.7	15.5
30°-40°	1037.5	18.1
40°-50°	1032.9	18.1
50°-60°	891.9	15.6
60°-70°	642.0	11.2
70°-80°	336.7	5.9
80°-90°	83.5	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°	1696.2	29.6
0°-40°	2733.7	47.8
0°-60°	4658.5	81.4
0°-90°	5720.7	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5720.7	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2248	2248	2248	2248	2248	
5°	2254	2229	2237	2230	2227	214
15°	2146	2118	2122	2118	2114	605
25°	1961	1928	1926	1914	1920	902
35°	1686	1663	1662	1646	1652	1054
45°	1355	1343	1337	1333	1331	1045
55°	1004	1002	1004	990	988	896
65°	636	655	668	641	620	630
75°	293	320	337	314	285	314
85°	50	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°	2248.5	2248.5	2248.5	2248.5	2248.5
2.5°	2261.1	2242.5	2248.5	2243.5	2232.6
5°	2254.4	2229.2	2236.6	2230.5	2226.7
7.5°	2231.4	2208.2	2213.6	2207.2	2204.9
10°	2210.8	2187.6	2193.0	2185.0	2181.1
12.5°	2187.1	2162.3	2167.6	2159.7	2157.3
15°	2145.5	2118.3	2121.7	2117.6	2113.8
17.5°	2097.1	2069.6	2070.2	2063.8	2063.0
20°	2062.2	2033.2	2030.6	2022.7	2026.6
22.5°	2024.2	1993.6	1990.9	1980.0	1985.4
25°	1961.2	1928.3	1925.6	1913.8	1919.6
27.5°	1888.3	1855.8	1855.8	1839.3	1845.5
30°	1834.4	1803.4	1806.7	1787.1	1794.8
32.5°	1777.4	1749.5	1751.2	1731.6	1739.3
35°	1685.9	1662.6	1662.1	1646.4	1652.2
37.5°	1592.3	1571.8	1568.6	1559.5	1561.0
40°	1527.4	1509.9	1503.6	1497.7	1497.7
42.5°	1459.2	1443.3	1437.0	1432.6	1431.1
45°	1355.0	1343.4	1337.2	1333.2	1331.2
47.5°	1252.0	1241.2	1235.8	1232.9	1231.0
50°	1180.7	1172.9	1170.8	1164.8	1162.9
52.5°	1109.4	1104.7	1102.6	1095.1	1093.1
55°	1004.4	1002.4	1004.4	990.5	988.5
57.5°	895.0	898.1	904.5	885.8	881.2
60°	822.1	829.9	838.0	816.0	808.3
62.5°	747.6	760.0	771.4	746.2	735.4
65°	635.9	655.3	667.6	641.4	620.1
67.5°	528.1	552.2	567.0	538.7	514.7
70°	453.7	480.8	497.2	468.9	441.8
72.5°	388.7	418.9	432.3	405.5	378.4
75°	293.2	320.3	336.8	314.3	285.3
77.5°	208.0	233.6	247.2	227.7	203.6
80°	152.5	179.7	190.2	173.9	154.5
82.5°	108.2	130.6	137.9	128.1	114.9
85°	49.5	65.0	73.3	69.2	65.4
87.5°	12.7	23.5	30.1	30.1	31.7
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)