

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: P564859

Luminaire Tested: **SQ4-PW1-0U-100D-830-1D-UNV-STD-W-6**

Issue Date: 7/30/2021

Test Information

Test Method: LM-79-2019
Report Number: P564859
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-830-1D-UNV-STD-W-6
Description: CORELITE SQ4 SUSPENDED LED LUMINAIRE WITH PERCEIVE WAVES CONTINUOUS LENS.
DOWNLIGHT 1000 LUMENS PER FOOT
DIRECT ONLY
Light Source: 3000K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

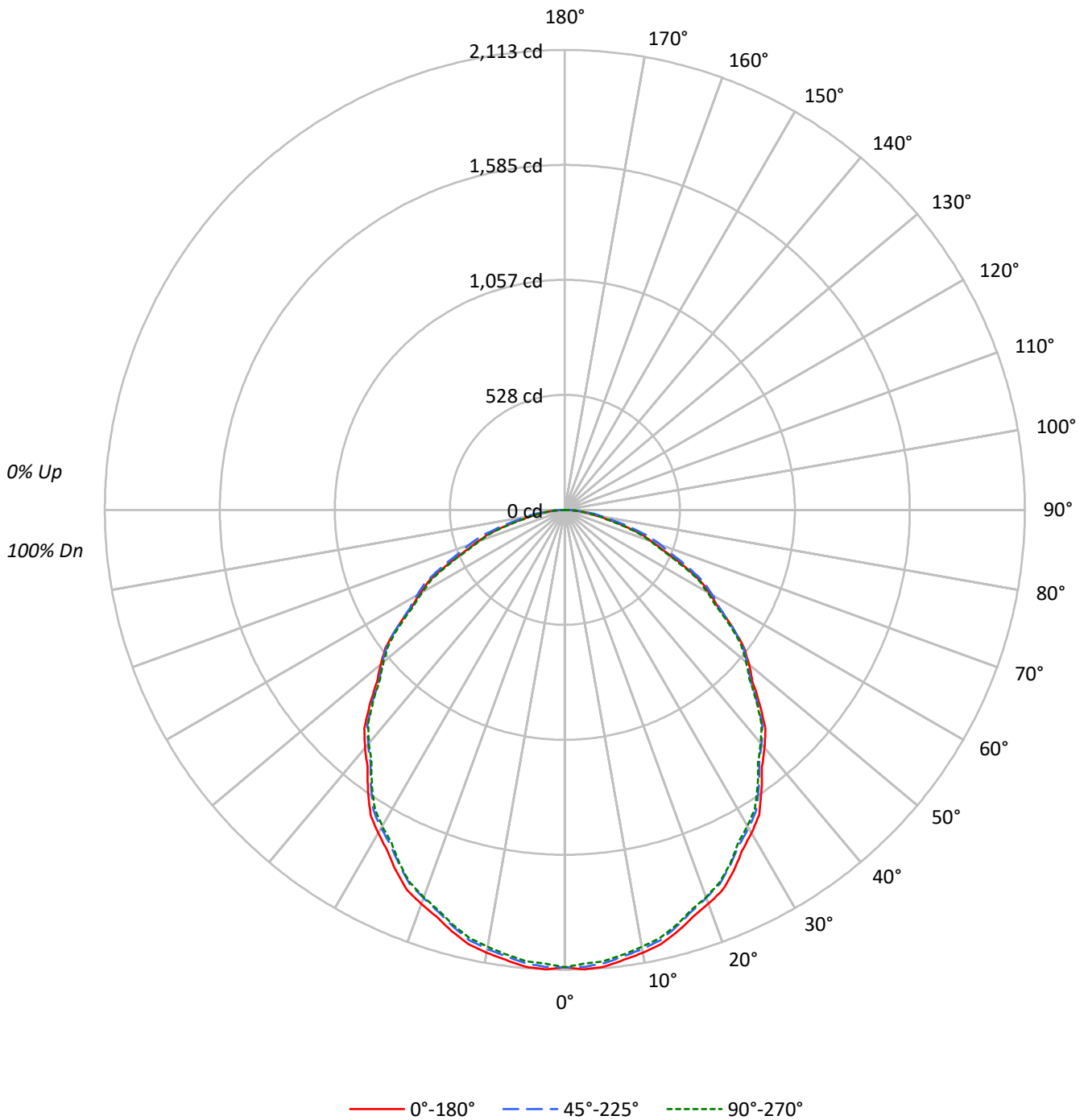
Lumens per Lamp: N/A
Luminaire Lumens: 5345.9 lumens
Efficiency: N/A
Efficacy: 96.7 lumens/watt
Spacing Criteria (0/90/45): 1.22 / 1.19 / 1.31
Luminous Opening: Rectangular (W 0.29' x L: 6' x H: 0')
CIE Type: Direct

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°	12924	12924	12924
5°	13007	12905	12847
10°	12904	12799	12730
15°	12767	12625	12578
20°	12614	12420	12396
25°	12438	12212	12175
30°	12176	11991	11912
35°	11829	11663	11593
40°	11460	11282	11237
45°	11015	10870	10821
50°	10557	10469	10399
55°	10065	10065	9906
60°	9451	9633	9291
65°	8649	9080	8433
70°	7623	8357	7424
75°	6512	7479	6336
80°	5048	6294	5115
85°	3268	4834	4312



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	197.9	3.7
10°-20°	558.6	10.4
20°-30°	828.6	15.5
30°-40°	969.5	18.1
40°-50°	965.2	18.1
50°-60°	833.5	15.6
60°-70°	600.0	11.2
70°-80°	314.6	5.9
80°-90°	78.0	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°	1585.1	29.6
0°-40°	2554.6	47.8
0°-60°	4353.3	81.4
0°-90°	5345.9	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5345.9	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2101	2101	2101	2101	2101	
5°	2107	2083	2090	2084	2081	200
15°	2005	1980	1983	1979	1975	565
25°	1833	1802	1799	1788	1794	843
35°	1575	1554	1553	1538	1544	985
45°	1266	1255	1250	1246	1244	977
55°	939	937	939	926	924	837
65°	594	612	624	599	579	589
75°	274	299	315	294	267	294
85°	46	61	68	65	61	63
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2101.2	2101.2	2101.2	2101.2	2101.2
2.5°	2113.0	2095.6	2101.2	2096.5	2086.4
5°	2106.7	2083.2	2090.1	2084.4	2080.8
7.5°	2085.2	2063.5	2068.6	2062.6	2060.4
10°	2066.0	2044.3	2049.3	2041.8	2038.2
12.5°	2043.8	2020.6	2025.6	2018.2	2016.0
15°	2004.9	1979.6	1982.7	1978.9	1975.3
17.5°	1959.7	1934.0	1934.6	1928.6	1927.9
20°	1927.1	1900.0	1897.5	1890.2	1893.8
22.5°	1891.6	1863.0	1860.5	1850.3	1855.3
25°	1832.7	1802.0	1799.4	1788.4	1793.9
27.5°	1764.6	1734.2	1734.2	1718.8	1724.6
30°	1714.3	1685.3	1688.3	1670.0	1677.2
32.5°	1660.9	1634.9	1636.5	1618.2	1625.4
35°	1575.4	1553.7	1553.2	1538.5	1543.9
37.5°	1488.0	1468.8	1465.8	1457.3	1458.8
40°	1427.3	1411.0	1405.1	1399.5	1399.5
42.5°	1363.6	1348.8	1342.9	1338.8	1337.3
45°	1266.3	1255.4	1249.6	1245.8	1244.0
47.5°	1170.0	1159.9	1154.8	1152.2	1150.4
50°	1103.3	1096.1	1094.1	1088.5	1086.7
52.5°	1036.7	1032.4	1030.4	1023.3	1021.5
55°	938.6	936.8	938.6	925.6	923.8
57.5°	836.4	839.3	845.3	827.8	823.4
60°	768.3	775.5	783.1	762.5	755.3
62.5°	698.7	710.2	720.9	697.3	687.2
65°	594.3	612.4	623.9	599.4	579.4
67.5°	493.5	516.0	529.8	503.4	481.0
70°	423.9	449.3	464.7	438.2	412.8
72.5°	363.2	391.5	403.9	378.9	353.6
75°	274.0	299.3	314.7	293.7	266.6
77.5°	194.4	218.3	231.0	212.8	190.3
80°	142.5	167.9	177.7	162.5	144.4
82.5°	101.1	122.1	128.8	119.7	107.4
85°	46.3	60.8	68.5	64.7	61.1
87.5°	11.8	22.0	28.1	28.2	29.6
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)