

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: P562340

Luminaire Tested: **SQ4-PW1-0U-125D-92765-1D-UNV-STD-W-4 (4500K)**

Issue Date: 7/30/2021

Test Information

Test Method: LM-79-2019
Report Number: P562340
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-92765-1D-UNV-STD-W-4 (4500K)
Description: CORELITE SQ4 SUSPENDED LED LUMINAIRE WITH PERCEIVE WAVES CONTINUOUS LENS
DOWNLIGHT 1250 LUMENS PER FOOT
DIRECT ONLY
Light Source: 2700K/65000K CCT, 90 CRI LEDS, TUNED TO 4500K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

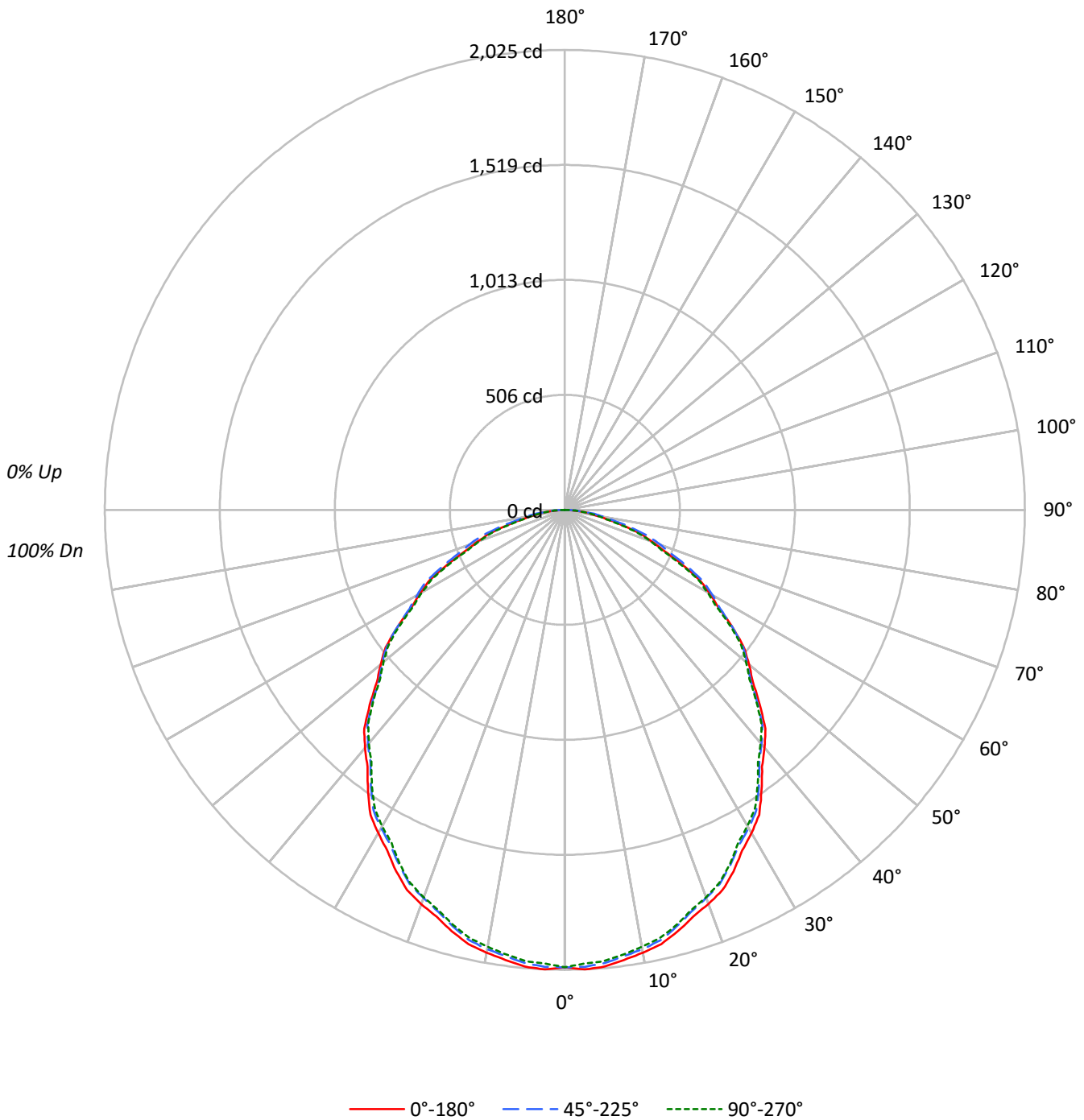
Lumens per Lamp: N/A
Luminaire Lumens: 5123.5 lumens
Efficiency: N/A
Efficacy: 92.0 lumens/watt
Spacing Criteria (0/90/45): 1.22 / 1.19 / 1.31
Luminous Opening: Rectangular (W 0.29' x L: 4' x H: 0')
CIE Type: Direct

Input Watts (W): 55.7
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°	18580	18580	18580
5°	18700	18552	18470
10°	18551	18401	18300
15°	18354	18150	18082
20°	18134	17856	17821
25°	17881	17556	17501
30°	17504	17238	17126
35°	17006	16766	16666
40°	16475	16220	16155
45°	15835	15626	15557
50°	15179	15051	14949
55°	14469	14469	14240
60°	13587	13849	13358
65°	12433	13053	12123
70°	10960	12012	10674
75°	9361	10751	9108
80°	7258	9048	7353
85°	4700	6944	6203



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	189.6	3.7
10°-20°	535.4	10.4
20°-30°	794.1	15.5
30°-40°	929.2	18.1
40°-50°	925.1	18.1
50°-60°	798.8	15.6
60°-70°	575.0	11.2
70°-80°	301.5	5.9
80°-90°	74.8	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°	1519.1	29.7
0°-40°	2448.3	47.8
0°-60°	4172.2	81.4
0°-90°	5123.5	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5123.5	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2014	2014	2014	2014	2014	
5°	2019	1996	2003	1998	1994	191
15°	1922	1897	1900	1897	1893	542
25°	1756	1727	1725	1714	1719	808
35°	1510	1489	1489	1474	1480	944
45°	1214	1203	1198	1194	1192	936
55°	900	898	900	887	885	803
65°	570	587	598	574	555	564
75°	263	287	302	282	256	281
85°	44	58	66	62	59	60
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2013.8	2013.8	2013.8	2013.8	2013.8
2.5°	2025.1	2008.5	2013.8	2009.3	1999.6
5°	2019.1	1996.5	2003.1	1997.7	1994.3
7.5°	1998.5	1977.7	1982.5	1976.8	1974.7
10°	1980.1	1959.2	1964.1	1956.9	1953.4
12.5°	1958.8	1936.6	1941.4	1934.2	1932.2
15°	1921.5	1897.2	1900.2	1896.6	1893.1
17.5°	1878.2	1853.6	1854.1	1848.4	1847.7
20°	1847.0	1821.0	1818.6	1811.6	1815.1
22.5°	1812.9	1785.5	1783.1	1773.3	1778.1
25°	1756.5	1727.0	1724.6	1714.0	1719.2
27.5°	1691.2	1662.1	1662.1	1647.3	1652.9
30°	1643.0	1615.2	1618.1	1600.5	1607.5
32.5°	1591.9	1566.9	1568.4	1550.8	1557.8
35°	1509.9	1489.1	1488.6	1474.5	1479.7
37.5°	1426.1	1407.7	1404.8	1396.7	1398.1
40°	1367.9	1352.3	1346.7	1341.3	1341.3
42.5°	1306.9	1292.7	1287.0	1283.1	1281.7
45°	1213.6	1203.2	1197.6	1194.0	1192.3
47.5°	1121.3	1111.6	1106.8	1104.3	1102.5
50°	1057.5	1050.5	1048.6	1043.2	1041.5
52.5°	993.6	989.4	987.5	980.8	979.0
55°	899.5	897.8	899.5	887.1	885.3
57.5°	801.6	804.4	810.1	793.3	789.2
60°	736.3	743.3	750.5	730.8	723.9
62.5°	669.6	680.7	690.9	668.3	658.6
65°	569.5	586.9	597.9	574.4	555.3
67.5°	473.0	494.5	507.8	482.5	460.9
70°	406.3	430.6	445.3	419.9	395.7
72.5°	348.1	375.2	387.1	363.2	338.9
75°	262.6	286.9	301.6	281.5	255.5
77.5°	186.3	209.2	221.4	203.9	182.4
80°	136.6	160.9	170.3	155.7	138.4
82.5°	96.9	117.0	123.5	114.7	102.9
85°	44.4	58.2	65.6	62.0	58.6
87.5°	11.4	21.1	27.0	27.0	28.4
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)