

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: P562338

Luminaire Tested: **SQ4-PW1-0U-125D-92765-1D-UNV-STD-W-4 (3500K)**

Issue Date: 7/30/2021

Test Information

Test Method: LM-79-2019
Report Number: P562338
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 (3500K)
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 3500K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4951.6 lumens
Efficiency: N/A
Efficacy: 88.7 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

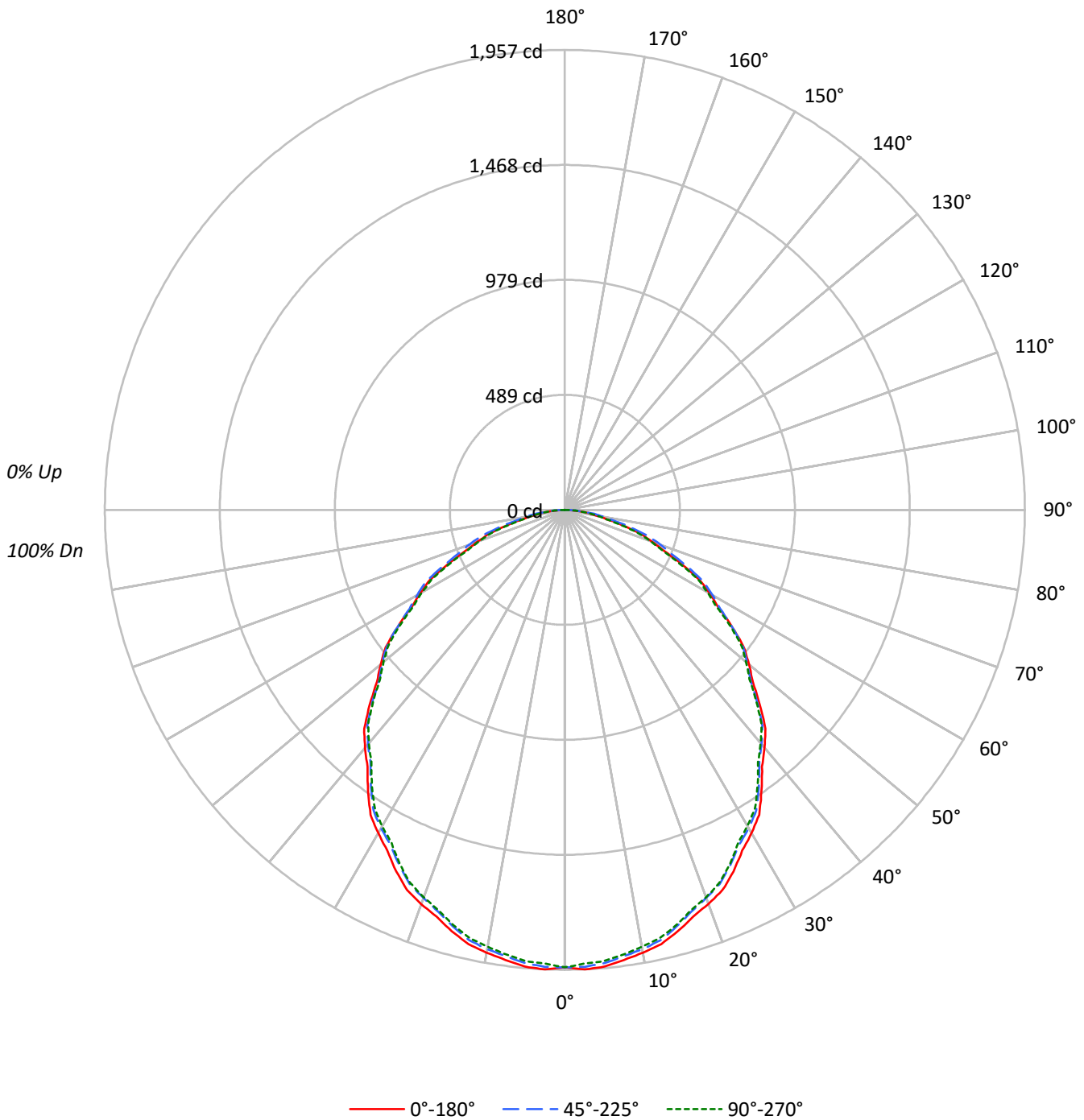
Input Watts (W): 55.8
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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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°	17956	17956	17956
5°	18072	17929	17850
10°	17928	17783	17687
15°	17737	17542	17476
20°	17526	17257	17222
25°	17282	16967	16915
30°	16916	16660	16550
35°	16435	16203	16107
40°	15922	15675	15613
45°	15304	15102	15035
50°	14669	14546	14447
55°	13985	13985	13763
60°	13131	13384	12909
65°	12016	12616	11717
70°	10593	11610	10315
75°	9047	10391	8801
80°	7013	8745	7104
85°	4541	6711	5992



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	183.3	3.7
10°-20°	517.4	10.4
20°-30°	767.5	15.5
30°-40°	898.0	18.1
40°-50°	894.0	18.1
50°-60°	772.0	15.6
60°-70°	555.7	11.2
70°-80°	291.4	5.9
80°-90°	72.3	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°	1468.2	29.7
0°-40°	2366.2	47.8
0°-60°	4032.2	81.4
0°-90°	4951.6	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4951.6	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1946	1946	1946	1946	1946	
5°	1951	1930	1936	1931	1927	185
15°	1857	1834	1836	1833	1830	523
25°	1698	1669	1667	1656	1662	781
35°	1459	1439	1439	1425	1430	912
45°	1173	1163	1157	1154	1152	905
55°	869	868	869	857	856	776
65°	550	567	578	555	537	545
75°	254	277	292	272	247	272
85°	43	56	63	60	57	58
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1946.2	1946.2	1946.2	1946.2	1946.2
2.5°	1957.2	1941.1	1946.2	1941.9	1932.5
5°	1951.3	1929.5	1935.9	1930.7	1927.3
7.5°	1931.4	1911.3	1916.0	1910.5	1908.5
10°	1913.6	1893.5	1898.2	1891.2	1887.9
12.5°	1893.0	1871.6	1876.2	1869.3	1867.3
15°	1857.0	1833.6	1836.5	1832.9	1829.6
17.5°	1815.2	1791.4	1791.9	1786.4	1785.7
20°	1785.0	1759.9	1757.6	1750.8	1754.1
22.5°	1752.1	1725.6	1723.3	1713.8	1718.5
25°	1697.6	1669.1	1666.7	1656.5	1661.6
27.5°	1634.5	1606.3	1606.3	1592.1	1597.4
30°	1587.8	1561.0	1563.8	1546.8	1553.5
32.5°	1538.4	1514.3	1515.8	1498.8	1505.5
35°	1459.2	1439.1	1438.6	1425.0	1430.1
37.5°	1378.3	1360.5	1357.7	1349.8	1351.2
40°	1322.0	1307.0	1301.5	1296.3	1296.3
42.5°	1263.1	1249.3	1243.9	1240.0	1238.7
45°	1172.9	1162.8	1157.4	1154.0	1152.3
47.5°	1083.7	1074.3	1069.6	1067.2	1065.5
50°	1022.0	1015.3	1013.4	1008.2	1006.5
52.5°	960.2	956.2	954.4	947.9	946.2
55°	869.4	867.7	869.4	857.3	855.6
57.5°	774.7	777.4	782.9	766.7	762.7
60°	711.6	718.3	725.3	706.3	699.6
62.5°	647.1	657.9	667.7	645.9	636.5
65°	550.4	567.2	577.9	555.1	536.7
67.5°	457.1	477.9	490.7	466.3	445.5
70°	392.7	416.1	430.4	405.9	382.4
72.5°	336.4	362.6	374.1	351.0	327.5
75°	253.8	277.2	291.5	272.1	246.9
77.5°	180.0	202.2	214.0	197.1	176.3
80°	132.0	155.5	164.6	150.5	133.7
82.5°	93.6	113.1	119.3	110.9	99.5
85°	42.9	56.3	63.4	59.9	56.6
87.5°	11.0	20.4	26.1	26.1	27.4
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)