

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: P562339

Luminaire Tested: **SQ4-PW1-0U-125D-92765-1D-UNV-STD-W-4 (4000K)**

Issue Date: 7/30/2021

Test Information

Test Method: LM-79-2019
Report Number: P562339
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 (4000K)
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 4000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

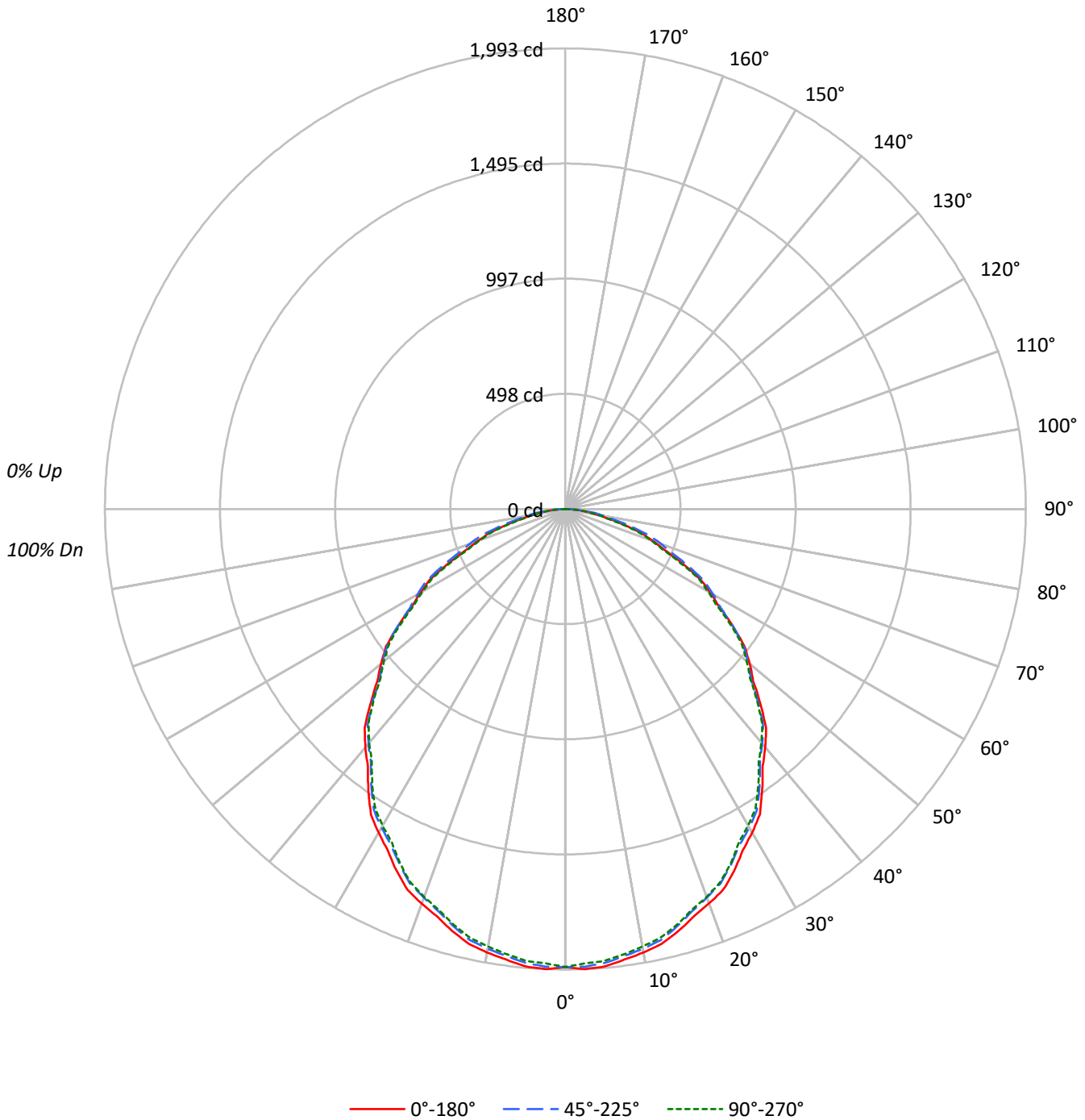
Lumens per Lamp: N/A
Luminaire Lumens: 5042.2 lumens
Efficiency: N/A
Efficacy: 90.4 lumens/watt
Spacing Criteria (0/90/45): 1.22 / 1.19 / 1.31
Luminous Opening: Rectangular (W 0.29' x L: 4' x H: 0')
CIE Type: Direct

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°	18284	18284	18284
5°	18402	18257	18177
10°	18256	18108	18010
15°	18062	17863	17796
20°	17847	17572	17537
25°	17597	17277	17225
30°	17226	16965	16853
35°	16736	16500	16401
40°	16214	15962	15898
45°	15583	15378	15310
50°	14938	14811	14711
55°	14240	14240	14015
60°	13371	13629	13145
65°	12236	12845	11931
70°	10788	11823	10504
75°	9211	10580	8962
80°	7141	8905	7237
85°	4626	6838	6097



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	186.6	3.7
10°-20°	526.9	10.4
20°-30°	781.5	15.5
30°-40°	914.5	18.1
40°-50°	910.4	18.1
50°-60°	786.2	15.6
60°-70°	565.9	11.2
70°-80°	296.7	5.9
80°-90°	73.6	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°	1495.0	29.6
0°-40°	2409.5	47.8
0°-60°	4106.0	81.4
0°-90°	5042.2	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5042.2	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1982	1982	1982	1982	1982	
5°	1987	1965	1971	1966	1963	188
15°	1891	1867	1870	1866	1863	533
25°	1729	1700	1697	1687	1692	795
35°	1486	1465	1465	1451	1456	929
45°	1194	1184	1179	1175	1173	921
55°	885	884	885	873	871	790
65°	560	578	588	565	546	555
75°	258	282	297	277	251	277
85°	44	57	65	61	58	59
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1981.8	1981.8	1981.8	1981.8	1981.8
2.5°	1993.0	1976.6	1981.8	1977.4	1967.8
5°	1987.0	1964.8	1971.3	1966.0	1962.6
7.5°	1966.8	1946.3	1951.1	1945.4	1943.4
10°	1948.6	1928.1	1932.9	1925.8	1922.4
12.5°	1927.7	1905.8	1910.6	1903.5	1901.5
15°	1891.0	1867.1	1870.1	1866.5	1863.1
17.5°	1848.4	1824.2	1824.7	1819.0	1818.4
20°	1817.7	1792.1	1789.7	1782.8	1786.2
22.5°	1784.1	1757.2	1754.8	1745.1	1749.9
25°	1728.6	1699.6	1697.2	1686.8	1692.0
27.5°	1664.4	1635.7	1635.7	1621.2	1626.6
30°	1616.9	1589.6	1592.4	1575.1	1581.9
32.5°	1566.6	1542.0	1543.5	1526.2	1533.1
35°	1485.9	1465.4	1465.0	1451.1	1456.2
37.5°	1403.5	1385.4	1382.5	1374.5	1375.9
40°	1346.2	1330.9	1325.3	1320.0	1320.0
42.5°	1286.2	1272.2	1266.6	1262.7	1261.4
45°	1194.3	1184.1	1178.6	1175.1	1173.4
47.5°	1103.5	1094.0	1089.2	1086.7	1085.0
50°	1040.7	1033.8	1031.9	1026.7	1024.9
52.5°	977.8	973.7	971.9	965.2	963.5
55°	885.3	883.6	885.3	873.0	871.3
57.5°	788.9	791.6	797.3	780.8	776.7
60°	724.6	731.5	738.6	719.2	712.4
62.5°	659.0	669.9	679.9	657.7	648.1
65°	560.5	577.6	588.4	565.3	546.5
67.5°	465.5	486.7	499.7	474.8	453.6
70°	399.9	423.8	438.3	413.3	389.4
72.5°	342.6	369.2	381.0	357.4	333.5
75°	258.4	282.3	296.8	277.0	251.4
77.5°	183.3	205.9	217.9	200.7	179.5
80°	134.4	158.3	167.6	153.3	136.2
82.5°	95.3	115.1	121.5	112.9	101.3
85°	43.7	57.3	64.6	61.0	57.6
87.5°	11.2	20.7	26.5	26.6	27.9
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)