

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: P564218

Luminaire Tested: **SQ4-PR1-0U-125D-840-1D-UNV-STD-W-4**

Issue Date: 7/30/2021

Test Information

Test Method: LM-79-2019
Report Number: P564218
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2106-289-4)
Test Lab: INNOVATION CENTER
Issue Date: 7/30/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: CORELITE
Catalog Number: SQ4-PR1-0U-125D-840-1D-UNV-STD-W-4
Description: CORELITE SQ4 SUSPENDED LED LUMINAIRE WITH PERCEIVE RIPPLE CONTINUOUS LENS.
DOWNLIGHT 1250 LUMENS PER FOOT
DIRECT ONLY
Light Source: 4000K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

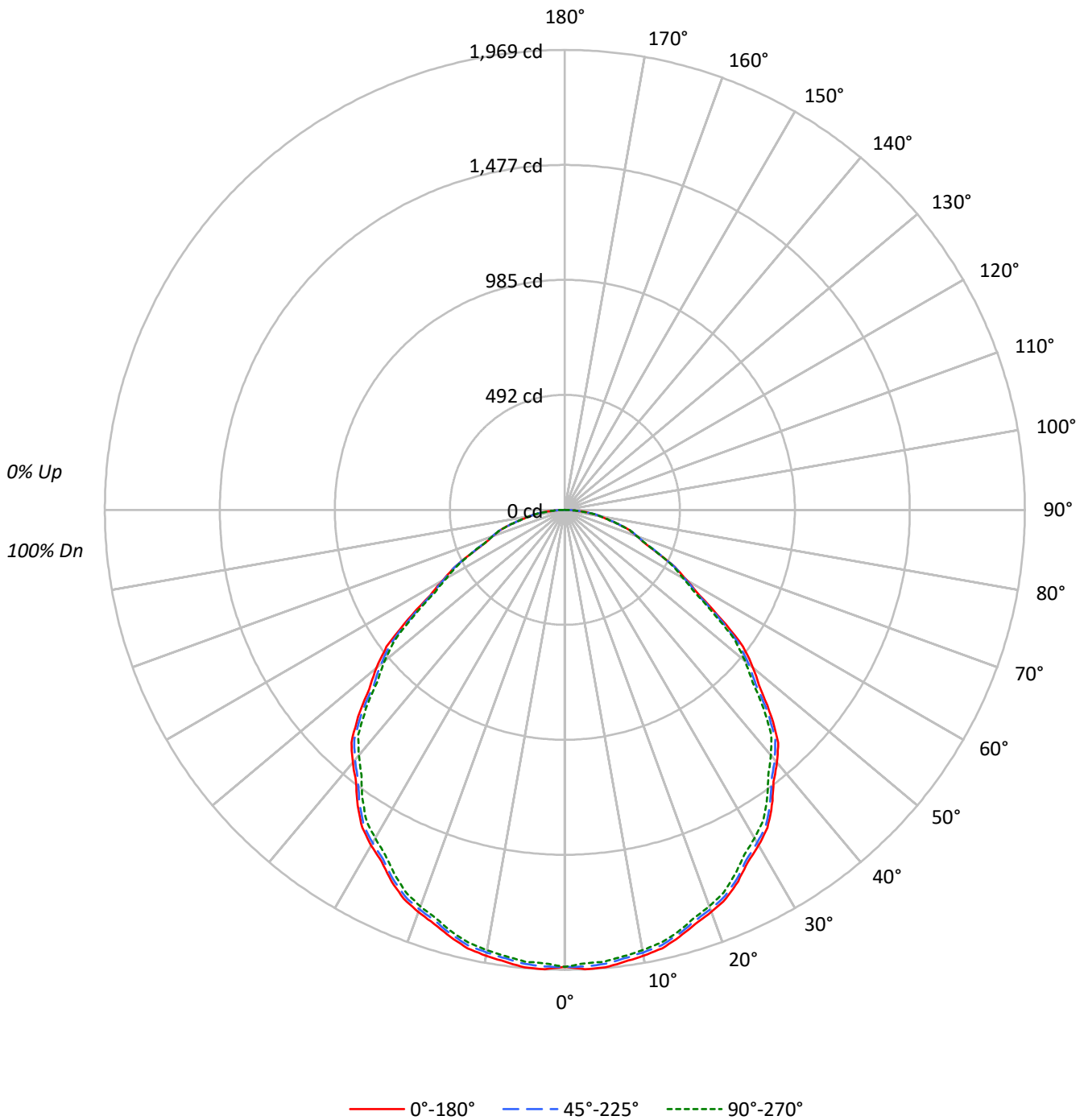
Lumens per Lamp: N/A
Luminaire Lumens: 4891.6 lumens
Efficiency: N/A
Efficacy: 112.2 lumens/watt
Spacing Criteria (0/90/45): 1.26 / 1.24 / 1.35
Luminous Opening: Rectangular (W 0.29' x L: 4' x H: 0')
CIE Type: Direct

Input Watts (W): 43.6
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	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	110	105	101	98	107	103	99	96	99	96	93	95	92	90	91	89	87	85				
2	100	93	86	81	98	91	85	80	87	82	78	84	80	76	81	78	75	72				
3	92	82	74	68	90	80	73	68	78	71	66	75	70	65	72	68	64	62				
4	85	73	65	58	82	72	64	58	69	63	57	67	61	56	65	60	56	54				
5	78	66	57	51	76	65	57	50	63	55	50	61	54	49	59	53	49	47				
6	72	59	51	45	70	58	50	44	57	49	44	55	49	44	53	48	43	41				
7	67	54	46	40	65	53	45	39	52	44	39	50	44	39	49	43	39	37				
8	63	49	41	35	61	49	41	35	47	40	35	46	40	35	45	39	35	33				
9	58	45	37	32	57	45	37	32	44	37	32	43	36	32	42	36	31	30				
10	55	42	34	29	54	41	34	29	40	34	29	40	33	29	39	33	29	27				

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	18053	18053	18053
5°	18215	18076	17981
10°	18158	18032	17937
15°	18078	17966	17869
20°	17987	17871	17739
25°	17861	17741	17534
30°	17668	17542	17291
35°	17407	17255	17008
40°	17010	16828	16523
45°	16316	16031	15702
50°	15095	14732	14442
55°	13176	12876	12606
60°	11103	11009	10791
65°	9603	9641	9566
70°	8821	8864	8864
75°	8470	8470	8530
80°	7970	8060	7970
85°	6426	7135	7135



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	185.0	3.8
10°-20°	529.4	10.8
20°-30°	798.5	16.3
30°-40°	951.4	19.5
40°-50°	938.0	19.2
50°-60°	716.9	14.7
60°-70°	443.6	9.1
70°-80°	252.0	5.2
80°-90°	76.6	1.6
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°	1513.0	30.9
0°-40°	2464.4	50.4
0°-60°	4119.3	84.2
0°-90°	4891.6	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4891.6	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1957	1957	1957	1957	1957	
5°	1967	1945	1952	1945	1942	187
15°	1893	1873	1881	1874	1871	534
25°	1754	1733	1743	1724	1722	807
35°	1546	1527	1532	1512	1510	965
45°	1250	1234	1229	1207	1203	958
55°	819	806	800	787	784	734
65°	440	437	442	438	438	446
75°	238	238	238	239	239	251
85°	61	64	67	67	67	73
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1956.7	1956.7	1956.7	1956.7	1956.7
2.5°	1968.8	1951.7	1956.7	1952.5	1943.2
5°	1966.8	1945.4	1951.7	1944.8	1941.5
7.5°	1951.7	1930.6	1936.8	1930.0	1928.1
10°	1938.2	1918.4	1924.7	1917.9	1914.6
12.5°	1923.3	1902.2	1909.9	1901.7	1898.4
15°	1892.7	1872.9	1880.9	1874.1	1870.8
17.5°	1859.0	1837.9	1845.8	1838.0	1833.7
20°	1832.0	1812.2	1820.2	1808.4	1806.7
22.5°	1802.3	1782.6	1790.5	1774.7	1774.4
25°	1754.5	1733.0	1742.7	1724.1	1722.4
27.5°	1697.5	1677.7	1685.7	1666.8	1664.8
30°	1658.4	1638.6	1646.6	1626.3	1623.0
32.5°	1613.9	1595.4	1602.1	1581.8	1579.9
35°	1545.5	1527.4	1532.0	1511.7	1510.1
37.5°	1467.6	1451.1	1453.8	1431.5	1429.9
40°	1412.3	1395.9	1397.2	1373.5	1371.9
42.5°	1351.7	1335.2	1333.8	1310.2	1308.5
45°	1250.5	1234.1	1228.6	1206.6	1203.4
47.5°	1135.3	1118.8	1108.6	1090.7	1088.4
50°	1051.7	1035.2	1026.4	1011.1	1006.2
52.5°	961.3	944.9	937.4	923.5	918.5
55°	819.1	805.9	800.5	787.0	783.7
57.5°	683.9	675.0	673.5	660.3	659.0
60°	601.7	596.7	596.6	584.8	584.8
62.5°	531.6	527.9	530.6	522.8	521.5
65°	439.9	436.6	441.6	438.2	438.2
67.5°	367.4	367.4	370.4	369.1	369.1
70°	327.0	327.0	328.6	328.6	328.6
72.5°	290.6	289.2	293.6	293.6	292.2
75°	237.6	237.6	237.6	239.3	239.3
77.5°	185.1	185.4	186.7	186.4	185.1
80°	150.0	151.6	151.7	150.0	150.0
82.5°	114.9	116.6	116.6	116.3	114.9
85°	60.7	64.0	67.4	67.4	67.4
87.5°	17.5	22.8	27.0	26.9	25.6
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)