

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: P564895

Luminaire Tested: **SQ4-PW1-0U-125D-930-1D-UNV-STD-W-6**

Issue Date: 7/30/2021

Test Information

Test Method: LM-79-2019
Report Number: P564895
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-930-1D-UNV-STD-W-6
Description: CORELITE SQ4 SUSPENDED LED LUMINAIRE WITH PERCEIVE WAVES CONTINUOUS LENS.
DOWNLIGHT 1250 LUMENS PER FOOT
DIRECT ONLY
Light Source: 3000K CCT, 90 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

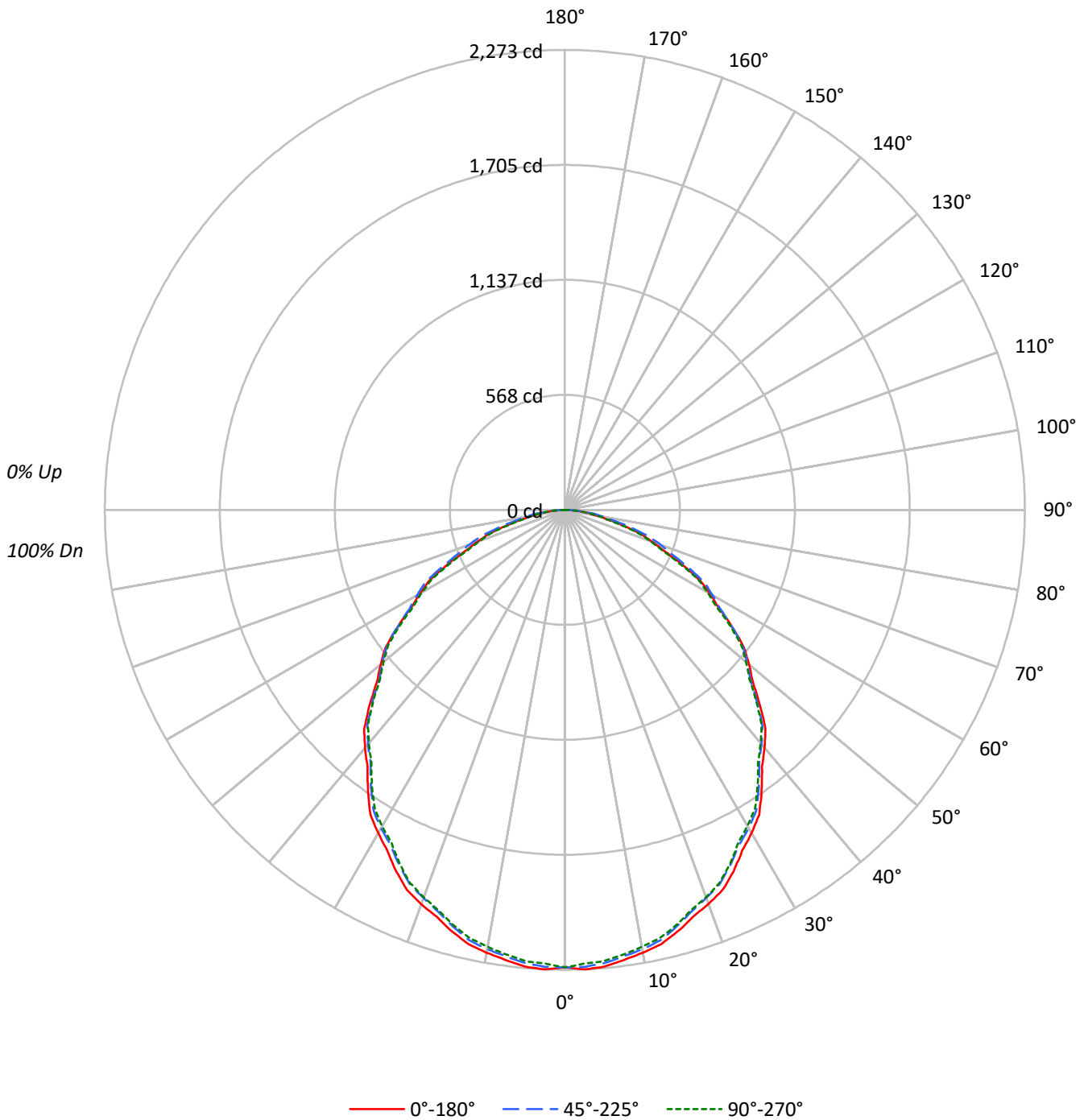
Lumens per Lamp: N/A
Luminaire Lumens: 5751.4 lumens
Efficiency: N/A
Efficacy: 82.5 lumens/watt
Spacing Criteria (0/90/45): 1.22 / 1.19 / 1.31
Luminous Opening: Rectangular (W 0.29' x L: 6' x H: 0')
CIE Type: Direct

Input Watts (W): 69.7
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°	13904	13904	13904
5°	13994	13884	13822
10°	13882	13770	13696
15°	13735	13583	13532
20°	13571	13363	13337
25°	13382	13138	13098
30°	13099	12901	12816
35°	12727	12547	12473
40°	12330	12138	12090
45°	11850	11694	11642
50°	11358	11264	11187
55°	10829	10829	10657
60°	10167	10364	9996
65°	9304	9769	9073
70°	8202	8990	7987
75°	7006	8047	6816
80°	5434	6773	5504
85°	3515	5201	4637



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	212.9	3.7
10°-20°	601.0	10.4
20°-30°	891.4	15.5
30°-40°	1043.1	18.1
40°-50°	1038.4	18.1
50°-60°	896.7	15.6
60°-70°	645.5	11.2
70°-80°	338.5	5.9
80°-90°	83.9	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°	1705.3	29.6
0°-40°	2748.4	47.8
0°-60°	4683.5	81.4
0°-90°	5751.4	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5751.4	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2260	2260	2260	2260	2260	
5°	2266	2241	2249	2242	2239	215
15°	2157	2130	2133	2129	2125	608
25°	1972	1939	1936	1924	1930	907
35°	1695	1672	1671	1655	1661	1060
45°	1362	1351	1344	1340	1338	1051
55°	1010	1008	1010	996	994	901
65°	639	659	671	645	623	634
75°	295	322	339	316	287	316
85°	50	65	74	70	66	67
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2260.5	2260.5	2260.5	2260.5	2260.5
2.5°	2273.3	2254.6	2260.5	2255.5	2244.6
5°	2266.5	2241.2	2248.6	2242.5	2238.6
7.5°	2243.4	2220.0	2225.5	2219.1	2216.7
10°	2222.7	2199.3	2204.8	2196.7	2192.8
12.5°	2198.8	2173.9	2179.3	2171.3	2168.9
15°	2157.0	2129.7	2133.1	2129.0	2125.1
17.5°	2108.4	2080.7	2081.3	2074.9	2074.1
20°	2073.3	2044.1	2041.5	2033.6	2037.5
22.5°	2035.1	2004.3	2001.6	1990.6	1996.1
25°	1971.8	1938.6	1935.9	1924.1	1929.9
27.5°	1898.5	1865.7	1865.8	1849.2	1855.4
30°	1844.3	1813.1	1816.4	1796.7	1804.5
32.5°	1786.9	1758.9	1760.6	1740.9	1748.7
35°	1694.9	1671.5	1671.0	1655.2	1661.1
37.5°	1600.9	1580.3	1577.0	1567.9	1569.4
40°	1535.6	1518.1	1511.7	1505.7	1505.7
42.5°	1467.1	1451.1	1444.8	1440.3	1438.8
45°	1362.3	1350.6	1344.4	1340.4	1338.4
47.5°	1258.7	1247.8	1242.4	1239.6	1237.6
50°	1187.0	1179.2	1177.1	1171.1	1169.1
52.5°	1115.3	1110.7	1108.6	1101.0	1099.0
55°	1009.8	1007.8	1009.8	995.8	993.8
57.5°	899.8	903.0	909.4	890.6	885.9
60°	826.5	834.3	842.5	820.4	812.6
62.5°	751.7	764.1	775.6	750.2	739.3
65°	639.3	658.8	671.2	644.8	623.4
67.5°	531.0	555.1	570.0	541.6	517.4
70°	456.1	483.4	499.9	471.4	444.1
72.5°	390.8	421.1	434.6	407.7	380.4
75°	294.8	322.0	338.6	316.0	286.8
77.5°	209.1	234.8	248.6	228.9	204.7
80°	153.4	180.6	191.2	174.8	155.4
82.5°	108.7	131.3	138.6	128.8	115.5
85°	49.8	65.4	73.7	69.6	65.7
87.5°	12.7	23.7	30.3	30.3	31.9
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)