

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: P564991

Luminaire Tested: **SQ4-PW1-100U-125D-930-1D-UNV-STD-W-6**

Issue Date: 7/30/2021

Test Information

Test Method: LM-79-2019
Report Number: P564991
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1910-536-23, 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-PW1-100U-125D-930-1D-UNV-STD-W-6
Description: CORELITE SQ4 SUSPENDED LED LUMINAIRE WITH PERCEIVE WAVES CONTINUOUS LENS.
DOWNLIGHT 1250 LUMENS PER FOOT
UPLIGHT 1000 LUMENS PER FOOT
Light Source: 3000K CCT, 90 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

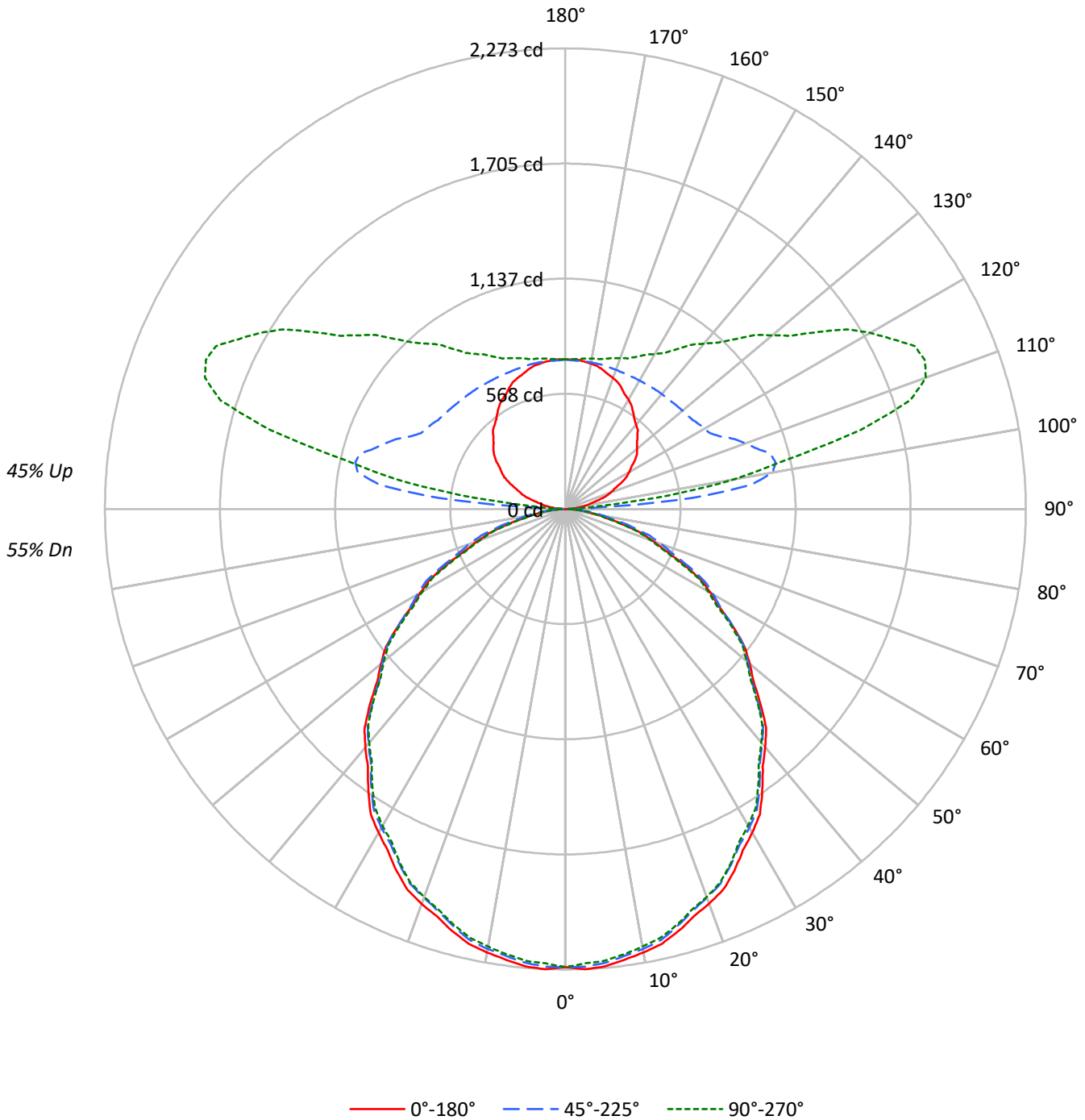
Lumens per Lamp: N/A
Luminaire Lumens: 10547.0 lumens
Efficiency: N/A
Efficacy: 98.3 lumens/watt
Spacing Criteria (0/90/45): 1.22 / 1.19 / 1.31
Luminous Opening: Rectangular (W 0.29' x L: 6' x H: 0')
CIE Type: General Diffuse

Input Watts (W): 107.3
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	108	108	108	108	100	100	100	100	86	86	86	73	73	73	60	60	60	55
1	99	95	91	87	92	88	85	82	76	73	71	64	62	61	53	52	51	46
2	90	83	77	71	83	77	72	67	66	62	59	56	53	51	47	45	43	39
3	82	73	65	60	76	68	61	56	59	54	49	50	46	43	42	39	37	33
4	75	64	57	50	70	60	53	48	52	47	42	44	40	37	37	34	32	28
5	69	57	49	43	64	54	46	41	47	41	36	40	36	32	34	30	28	25
6	64	52	43	38	59	48	41	36	42	36	32	36	32	28	31	27	24	22
7	59	47	39	33	55	44	36	31	38	32	28	33	28	25	28	24	22	19
8	55	42	35	29	51	40	33	28	35	29	25	30	26	22	26	22	19	17
9	51	39	31	26	47	36	30	25	32	26	22	28	23	20	24	20	18	15
10	48	36	28	23	44	33	27	22	29	24	20	26	21	18	22	19	16	14

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	2.0
10°-20°	601.0	5.7
20°-30°	891.4	8.5
30°-40°	1043.1	9.9
40°-50°	1038.4	9.8
50°-60°	896.7	8.5
60°-70°	645.5	6.1
70°-80°	338.5	3.2
80°-90°	85.4	0.8
90°-100°	345.5	3.3
100°-110°	953.9	9.0
110°-120°	983.8	9.3
120°-130°	790.5	7.5
130°-140°	621.3	5.9
140°-150°	476.5	4.5
150°-160°	342.5	3.2
160°-170°	209.4	2.0
170°-180°	70.6	0.7
0°-30°	1705.3	16.2
0°-40°	2748.4	26.1
0°-60°	4683.5	44.4
0°-90°	5753.0	54.5
90°-120°	2283.2	21.6
90°-150°	4171.5	39.6
90°-180°	4794.0	45.5
0°-180°	10547.0	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	66
90°	2	5	9	11	12	5
95°	51	187	627	258	168	54
105°	170	262	1050	1602	1509	181
115°	305	368	845	1673	1903	299
125°	418	476	766	1297	1522	372
135°	503	557	745	1050	1184	389
145°	583	624	736	894	962	365
155°	658	680	730	802	828	303
165°	712	721	733	762	767	201
175°	738	739	734	745	742	70
180°	738	738	738	738	738	



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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°	13.2	24.6	32.2	32.4	34.2
90°	2.4	4.7	9.4	10.7	11.8
92.5°	21.2	88.2	157.7	57.6	44.9
95°	50.8	187.0	626.9	257.7	167.6
97.5°	84.1	209.4	928.6	714.9	517.8
100°	108.6	222.9	1040.0	1047.4	851.2
102.5°	132.2	238.2	1061.8	1294.1	1108.0
105°	170.0	262.3	1049.5	1602.2	1508.7
107.5°	210.1	292.3	990.9	1750.8	1784.9
110°	238.5	312.3	945.6	1782.7	1893.6

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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	264.0	335.1	903.1	1757.5	1920.9
115°	304.6	368.1	845.3	1673.3	1903.0
117.5°	340.0	403.2	807.2	1554.8	1816.1
120°	363.6	425.9	792.1	1474.6	1737.7
122.5°	386.3	445.8	779.9	1399.6	1649.0
125°	417.9	475.6	766.2	1296.6	1521.7
127.5°	444.8	502.5	758.1	1209.5	1403.6
130°	462.8	520.5	754.4	1156.2	1332.8
132.5°	479.8	534.7	750.6	1111.4	1271.4
135°	502.9	557.2	744.9	1050.2	1184.1
137.5°	528.9	578.3	742.1	998.7	1113.0
140°	543.0	591.5	740.2	964.4	1064.8
142.5°	559.1	603.9	738.3	933.9	1022.3
145°	583.2	623.6	735.5	894.0	962.1
147.5°	606.3	641.6	732.9	860.4	913.3
150°	623.3	652.2	731.9	840.3	883.0
152.5°	636.5	663.5	731.0	823.2	858.5
155°	657.6	679.5	729.6	802.2	827.5
157.5°	676.9	693.8	729.8	786.9	804.2
160°	688.2	703.2	730.7	778.3	790.9
162.5°	697.7	710.8	731.7	770.6	780.6
165°	711.9	721.1	733.1	761.6	767.3
167.5°	722.7	728.3	734.3	756.0	757.9
170°	728.4	733.0	734.3	753.2	753.2
172.5°	733.1	735.9	734.3	749.4	748.5
175°	737.8	739.0	734.3	744.9	742.5
177.5°	739.7	738.8	734.0	740.6	738.8
180°	737.8	737.8	737.8	737.8	737.8

(END OF REPORT)