

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: P564763

Luminaire Tested: **SQ4-PW1-075U-100D-830-1D-UNV-STD-W-6**

Issue Date: 7/30/2021

Test Information

Test Method: LM-79-2019
Report Number: P564763
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1910-536-22, 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-PW1-075U-100D-830-1D-UNV-STD-W-6
Description: CORELITE SQ4 SUSPENDED LED LUMINAIRE WITH PERCEIVE WAVES CONTINUOUS LENS.
DOWNLIGHT 1000 LUMENS PER FOOT
UPLIGHT 750 LUMENS PER FOOT
Light Source: 3000K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

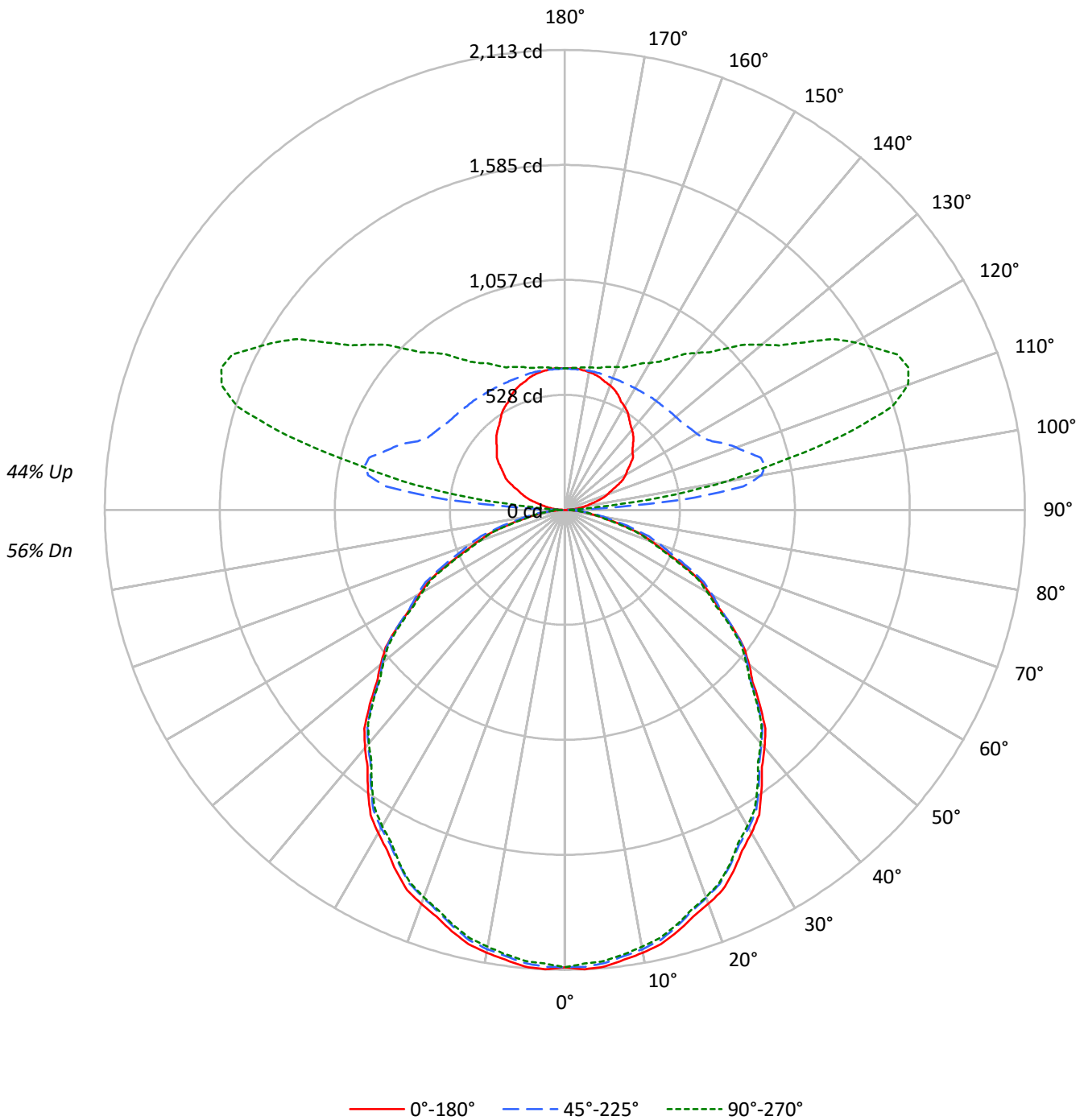
Lumens per Lamp: N/A
Luminaire Lumens: 9586.3 lumens
Efficiency: N/A
Efficacy: 115.6 lumens/watt
Spacing Criteria (0/90/45): 1.22 / 1.19 / 1.31
Luminous Opening: Rectangular (W 0.29' x L: 6' x H: 0')
CIE Type: General Diffuse

Input Watts (W): 82.9
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	109	109	109	109	101	101	101	101	87	87	87	73	73	73	61	61	61	56
1	99	95	91	88	92	88	85	82	76	74	71	65	63	61	55	53	52	47
2	90	83	77	72	84	77	72	67	67	63	59	57	54	51	48	46	44	40
3	83	73	66	60	76	68	62	56	59	54	50	51	47	44	43	40	38	34
4	76	65	57	51	70	60	53	48	52	47	43	45	41	37	38	35	32	29
5	69	58	49	43	64	54	47	41	47	41	37	40	36	32	34	31	28	25
6	64	52	44	38	59	49	41	36	42	37	32	37	32	28	31	28	25	22
7	59	47	39	33	55	44	37	32	38	33	28	33	29	25	29	25	22	20
8	55	43	35	29	51	40	33	28	35	29	25	30	26	23	26	23	20	18
9	51	39	31	26	48	37	30	25	32	27	23	28	24	20	24	21	18	16
10	48	36	28	24	44	34	27	22	30	24	20	26	21	18	22	19	16	14

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	12924	12924	12924
5°	13007	12905	12847
10°	12904	12799	12730
15°	12767	12625	12578
20°	12614	12420	12396
25°	12438	12212	12175
30°	12176	11991	11912
35°	11829	11663	11593
40°	11460	11282	11237
45°	11015	10870	10821
50°	10557	10469	10399
55°	10065	10065	9906
60°	9451	9633	9291
65°	8649	9080	8433
70°	7623	8357	7424
75°	6512	7479	6336
80°	5048	6294	5115
85°	3268	4834	4312



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	197.9	2.1
10°-20°	558.6	5.8
20°-30°	828.6	8.6
30°-40°	969.5	10.1
40°-50°	965.2	10.1
50°-60°	833.5	8.7
60°-70°	600.0	6.3
70°-80°	314.6	3.3
80°-90°	79.7	0.8
90°-100°	306.9	3.2
100°-110°	844.3	8.8
110°-120°	871.5	9.1
120°-130°	698.2	7.3
130°-140°	548.4	5.7
140°-150°	420.3	4.4
150°-160°	302.2	3.2
160°-170°	184.8	1.9
170°-180°	62.3	0.6
0°-30°	1585.1	16.5
0°-40°	2554.6	26.6
0°-60°	4353.3	45.4
0°-90°	5347.6	55.8
90°-120°	2022.6	21.1
90°-150°	3689.5	38.5
90°-180°	4239.0	44.2
0°-180°	9586.3	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2101	2101	2101	2101	2101	
5°	2107	2083	2090	2084	2081	200
15°	2005	1980	1983	1979	1975	565
25°	1833	1802	1799	1788	1794	843
35°	1575	1554	1553	1538	1544	985
45°	1266	1255	1250	1246	1244	977
55°	939	937	939	926	924	837
65°	594	612	624	599	579	589
75°	274	299	315	294	267	294
85°	46	61	68	65	61	61
90°	1	5	10	12	12	5
95°	46	168	543	232	148	48
105°	151	232	930	1417	1322	159
115°	267	325	746	1486	1686	264
125°	368	420	677	1145	1341	328
135°	444	493	658	926	1048	343
145°	514	549	648	789	850	322
155°	581	600	644	709	730	267
165°	628	637	646	673	677	177
175°	651	652	648	656	655	62
180°	651	651	651	651	651	

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CATALOG NUMBER: SQ4-PW1-075U-100D-830-1D-UNV-STD-W-6

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2101.2	2101.2	2101.2	2101.2	2101.2
2.5°	2113.0	2095.6	2101.2	2096.5	2086.4
5°	2106.7	2083.2	2090.1	2084.4	2080.8
7.5°	2085.2	2063.5	2068.6	2062.6	2060.4
10°	2066.0	2044.3	2049.3	2041.8	2038.2
12.5°	2043.8	2020.6	2025.6	2018.2	2016.0
15°	2004.9	1979.6	1982.7	1978.9	1975.3
17.5°	1959.7	1934.0	1934.6	1928.6	1927.9
20°	1927.1	1900.0	1897.5	1890.2	1893.8
22.5°	1891.6	1863.0	1860.5	1850.3	1855.3
25°	1832.7	1802.0	1799.4	1788.4	1793.9
27.5°	1764.6	1734.2	1734.2	1718.8	1724.6
30°	1714.3	1685.3	1688.3	1670.0	1677.2
32.5°	1660.9	1634.9	1636.5	1618.2	1625.4
35°	1575.4	1553.7	1553.2	1538.5	1543.9
37.5°	1488.0	1468.8	1465.8	1457.3	1458.8
40°	1427.3	1411.0	1405.1	1399.5	1399.5
42.5°	1363.6	1348.8	1342.9	1338.8	1337.3
45°	1266.3	1255.4	1249.6	1245.8	1244.0
47.5°	1170.0	1159.9	1154.8	1152.2	1150.4
50°	1103.3	1096.1	1094.1	1088.5	1086.7
52.5°	1036.7	1032.4	1030.4	1023.3	1021.5
55°	938.6	936.8	938.6	925.6	923.8
57.5°	836.4	839.3	845.3	827.8	823.4
60°	768.3	775.5	783.1	762.5	755.3
62.5°	698.7	710.2	720.9	697.3	687.2
65°	594.3	612.4	623.9	599.4	579.4
67.5°	493.5	516.0	529.8	503.4	481.0
70°	423.9	449.3	464.7	438.2	412.8
72.5°	363.2	391.5	403.9	378.9	353.6
75°	274.0	299.3	314.7	293.7	266.6
77.5°	194.4	218.3	231.0	212.8	190.3
80°	142.5	167.9	177.7	162.5	144.4
82.5°	101.1	122.1	128.8	119.7	107.4
85°	46.3	60.8	68.5	64.7	61.1
87.5°	12.1	23.1	30.1	30.7	32.1
90°	1.4	5.4	9.7	12.5	12.5
92.5°	19.1	81.6	141.5	54.3	44.6
95°	45.7	167.5	542.7	232.0	148.1
97.5°	74.5	185.7	828.1	638.1	450.2
100°	95.5	197.0	917.8	926.4	755.9
102.5°	115.5	210.5	941.1	1149.3	992.9
105°	150.9	232.1	930.3	1416.8	1322.1
107.5°	184.7	258.9	877.4	1547.8	1576.0
110°	209.0	276.7	837.5	1580.4	1677.8



TEST NUMBER: P564763

CATALOG NUMBER: SQ4-PW1-075U-100D-830-1D-UNV-STD-W-6

CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	231.2	296.7	797.7	1559.4	1707.7
115°	267.2	325.4	746.2	1485.8	1686.1
117.5°	301.5	355.1	713.5	1382.6	1609.2
120°	322.6	374.0	699.1	1305.2	1539.4
122.5°	341.4	392.8	689.1	1237.4	1459.7
125°	368.2	419.7	677.0	1145.2	1341.4
127.5°	393.7	442.7	668.9	1068.2	1240.4
130°	407.0	457.1	664.5	1022.5	1179.5
132.5°	422.5	472.6	661.2	982.2	1124.1
135°	444.4	493.1	657.6	926.1	1048.0
137.5°	464.9	510.1	654.5	880.8	981.2
140°	480.4	522.3	653.4	850.7	941.4
142.5°	493.7	532.4	651.2	823.8	901.5
145°	513.6	548.8	647.9	789.1	850.0
147.5°	534.9	565.2	646.2	758.4	807.1
150°	548.2	575.3	645.1	741.5	779.4
152.5°	560.4	585.3	644.0	726.9	758.4
155°	581.4	600.4	643.7	709.3	729.6
157.5°	596.7	612.1	643.7	694.7	708.8
160°	607.7	619.9	643.7	686.9	697.7
162.5°	616.6	626.6	644.8	680.2	688.9
165°	628.5	636.6	646.5	672.9	677.0
167.5°	636.8	643.0	647.9	666.7	667.8
170°	642.3	646.4	647.9	664.5	664.5
172.5°	646.8	648.7	647.9	661.1	660.1
175°	650.6	652.0	647.9	656.2	654.8
177.5°	651.8	651.8	647.3	653.9	651.8
180°	650.6	650.6	650.6	650.6	650.6

(END OF REPORT)