

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: P564975

Luminaire Tested: **SQ4-PW1-100U-100D-940-1D-UNV-STD-W-6**

Issue Date: 7/30/2021

Test Information

Test Method: LM-79-2019
Report Number: P564975
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-100D-940-1D-UNV-STD-W-6
Description: CORELITE SQ4 SUSPENDED LED LUMINAIRE WITH PERCEIVE WAVES CONTINUOUS LENS.
DOWNLIGHT 1000 LUMENS PER FOOT
UPLIGHT 1000 LUMENS PER FOOT
Light Source: 4000K CCT, 90 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

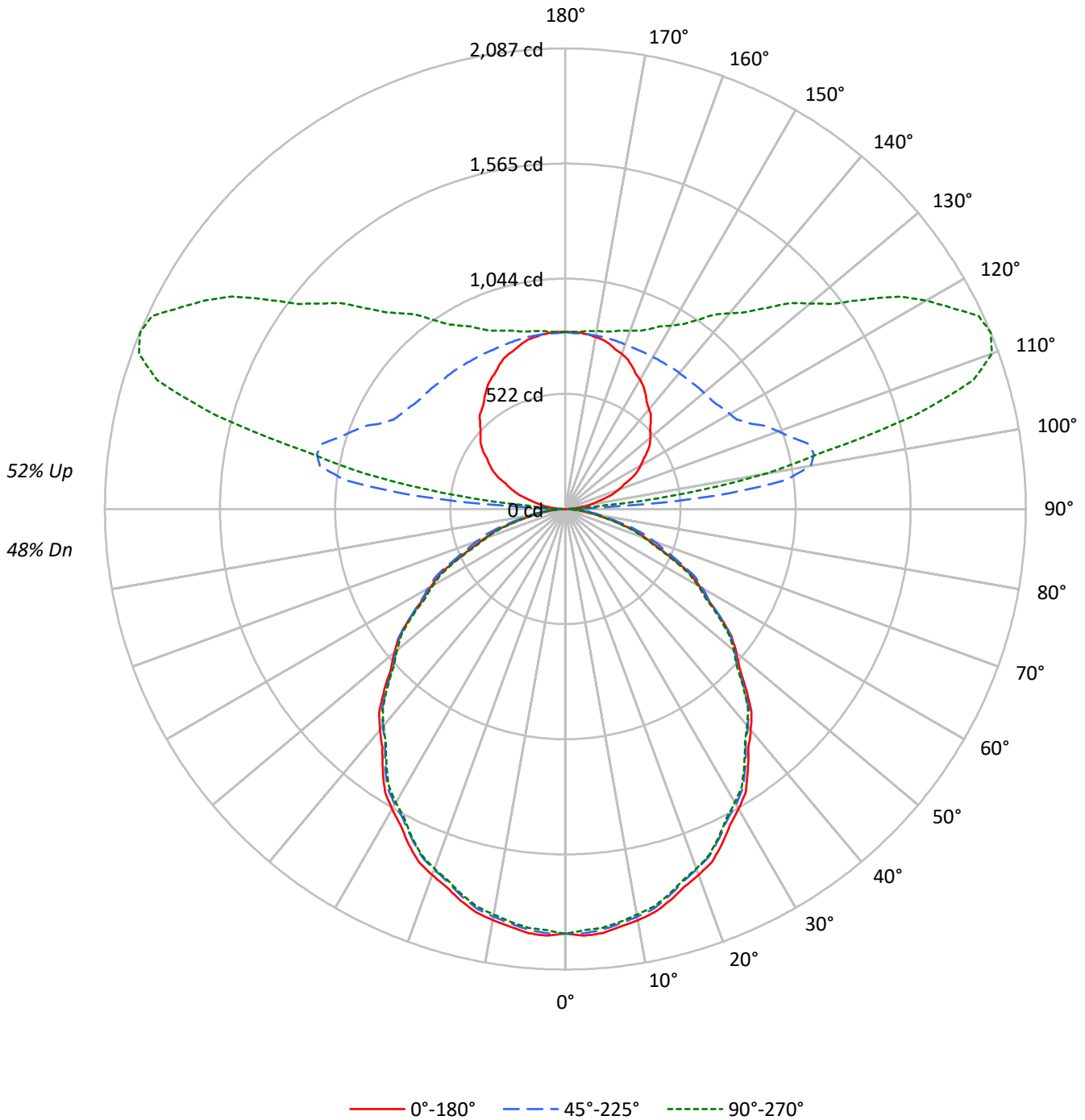
Lumens per Lamp: N/A
Luminaire Lumens: 10105.9 lumens
Efficiency: N/A
Efficacy: 108.8 lumens/watt
Spacing Criteria (0/90/45): 1.22 / 1.19 / 1.31
Luminous Opening: Rectangular (W 0.29' x L: 6' x H: 0')
CIE Type: General Diffuse

Input Watts (W): 92.9
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	50	30	10	0	
RCR																						
0	107	107	107	107	98	98	98	98	82	82	82	68	68	68	55	55	55	48				48
1	98	93	89	86	90	86	83	80	72	70	68	60	58	57	49	47	46	41				41
2	89	82	75	70	82	75	70	66	64	60	56	53	50	48	43	41	39	35				35
3	81	72	64	59	74	66	60	55	56	51	47	47	43	40	38	36	33	29				29
4	74	63	56	50	68	59	52	47	50	45	40	42	38	35	34	31	29	25				25
5	68	57	48	43	62	52	45	40	45	39	35	37	33	30	31	28	25	22				22
6	63	51	43	37	58	47	40	35	40	35	30	34	30	26	28	25	22	19				19
7	58	46	38	32	53	43	35	30	36	31	27	31	26	23	25	22	20	17				17
8	54	42	34	29	49	39	32	27	33	28	24	28	24	21	23	20	18	15				15
9	50	38	30	25	46	35	29	24	30	25	21	26	22	19	21	18	16	14				14
10	47	35	28	23	43	32	26	22	28	23	19	24	20	17	20	17	14	12				12

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	11837	11837	11837
5°	11913	11819	11766
10°	11818	11723	11659
15°	11693	11563	11520
20°	11553	11376	11353
25°	11391	11184	11150
30°	11151	10982	10910
35°	10834	10681	10617
40°	10496	10333	10292
45°	10088	9955	9911
50°	9669	9588	9524
55°	9218	9218	9073
60°	8655	8823	8510
65°	7922	8316	7724
70°	6983	7654	6800
75°	5963	6849	5803
80°	4626	5767	4683
85°	2992	4425	3952



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	181.2	1.8
10°-20°	511.6	5.1
20°-30°	758.9	7.5
30°-40°	888.0	8.8
40°-50°	884.0	8.7
50°-60°	763.4	7.6
60°-70°	549.5	5.4
70°-80°	288.2	2.9
80°-90°	73.1	0.7
90°-100°	375.4	3.7
100°-110°	1036.3	10.3
110°-120°	1068.7	10.6
120°-130°	858.8	8.5
130°-140°	674.9	6.7
140°-150°	517.7	5.1
150°-160°	372.0	3.7
160°-170°	227.5	2.3
170°-180°	76.7	0.8
0°-30°	1451.7	14.4
0°-40°	2339.7	23.2
0°-60°	3987.1	39.5
0°-90°	4897.8	48.5
90°-120°	2480.4	24.5
90°-150°	4531.8	44.8
90°-180°	5208.0	51.5
0°-180°	10105.9	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1924	1924	1924	1924	1924	
5°	1930	1908	1914	1909	1906	183
15°	1836	1813	1816	1812	1809	518
25°	1678	1650	1648	1638	1643	772
35°	1443	1423	1422	1409	1414	902
45°	1160	1150	1144	1141	1139	895
55°	860	858	860	848	846	767
65°	544	561	571	549	531	539
75°	251	274	288	269	244	269
85°	42	56	63	59	56	56
90°	3	5	10	12	13	5
95°	55	203	681	280	182	59
105°	185	285	1140	1741	1639	196
115°	331	400	918	1818	2067	325
125°	454	517	832	1409	1653	404
135°	546	605	809	1141	1286	423
145°	634	677	799	971	1045	397
155°	714	738	793	871	899	329
165°	773	783	796	827	834	218
175°	802	803	798	809	807	76
180°	802	802	802	802	802	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1924.4	1924.4	1924.4	1924.4	1924.4
2.5°	1935.2	1919.3	1924.4	1920.1	1910.8
5°	1929.5	1907.9	1914.2	1909.1	1905.7
7.5°	1909.8	1889.9	1894.5	1889.1	1887.1
10°	1892.2	1872.3	1876.9	1870.1	1866.7
12.5°	1871.8	1850.6	1855.2	1848.4	1846.4
15°	1836.2	1813.0	1815.9	1812.4	1809.1
17.5°	1794.9	1771.3	1771.8	1766.4	1765.7
20°	1765.0	1740.1	1737.9	1731.2	1734.5
22.5°	1732.5	1706.3	1704.0	1694.6	1699.2
25°	1678.5	1650.4	1648.0	1638.0	1642.9
27.5°	1616.1	1588.3	1588.3	1574.2	1579.5
30°	1570.0	1543.5	1546.3	1529.5	1536.1
32.5°	1521.2	1497.3	1498.8	1482.0	1488.6
35°	1442.9	1423.0	1422.5	1409.1	1414.0
37.5°	1362.8	1345.3	1342.5	1334.7	1336.1
40°	1307.2	1292.3	1286.9	1281.8	1281.8
42.5°	1248.9	1235.3	1229.9	1226.2	1224.8
45°	1159.7	1149.8	1144.5	1141.0	1139.4
47.5°	1071.6	1062.3	1057.7	1055.2	1053.6
50°	1010.5	1003.9	1002.0	996.9	995.3
52.5°	949.5	945.5	943.7	937.2	935.6
55°	859.6	858.0	859.6	847.7	846.1
57.5°	766.0	768.7	774.2	758.1	754.2
60°	703.6	710.3	717.2	698.4	691.8
62.5°	639.9	650.5	660.2	638.7	629.4
65°	544.3	560.8	571.4	548.9	530.7
67.5°	452.0	472.6	485.3	461.0	440.5
70°	388.3	411.5	425.6	401.3	378.1
72.5°	332.7	358.5	370.0	347.0	323.8
75°	250.9	274.1	288.2	269.0	244.2
77.5°	178.0	199.9	211.6	194.9	174.3
80°	130.6	153.8	162.8	148.8	132.2
82.5°	92.6	111.8	118.0	109.6	98.3
85°	42.4	55.7	62.7	59.3	56.0
87.5°	11.4	21.1	27.8	28.1	29.7
90°	2.6	5.1	10.3	11.6	12.8
92.5°	23.1	95.8	171.3	62.5	48.7
95°	55.1	203.1	681.0	279.9	182.1
97.5°	91.3	227.5	1008.8	776.7	562.5
100°	118.0	242.1	1129.9	1137.8	924.7
102.5°	143.6	258.8	1153.5	1405.9	1203.7
105°	184.7	285.0	1140.1	1740.6	1639.0
107.5°	228.3	317.6	1076.5	1902.0	1939.1
110°	259.1	339.3	1027.3	1936.7	2057.1



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	286.8	364.0	981.1	1909.3	2086.8
115°	330.9	399.8	918.3	1817.8	2067.4
117.5°	369.4	438.1	877.0	1689.1	1973.0
120°	395.0	462.7	860.5	1601.9	1887.8
122.5°	419.6	484.3	847.2	1520.5	1791.4
125°	454.0	516.7	832.3	1408.6	1653.1
127.5°	483.2	545.9	823.6	1313.9	1524.9
130°	502.7	565.4	819.5	1256.1	1447.9
132.5°	521.2	580.9	815.4	1207.4	1381.2
135°	546.3	605.3	809.2	1140.9	1286.3
137.5°	574.6	628.2	806.2	1085.0	1209.1
140°	589.9	642.6	804.1	1047.7	1156.8
142.5°	607.4	656.0	802.1	1014.6	1110.6
145°	633.5	677.4	799.0	971.2	1045.2
147.5°	658.7	697.1	796.2	934.7	992.1
150°	677.1	708.5	795.1	912.9	959.3
152.5°	691.5	720.9	794.1	894.2	932.6
155°	714.3	738.2	792.6	871.4	899.0
157.5°	735.4	753.7	792.8	854.8	873.6
160°	747.7	764.0	793.9	845.5	859.3
162.5°	757.9	772.2	794.9	837.2	848.0
165°	773.3	783.4	796.4	827.3	833.6
167.5°	785.1	791.2	797.7	821.3	823.4
170°	791.3	796.3	797.7	818.2	818.2
172.5°	796.4	799.4	797.7	814.1	813.1
175°	801.5	802.8	797.7	809.2	806.7
177.5°	803.6	802.6	797.4	804.6	802.6
180°	801.5	801.5	801.5	801.5	801.5

(END OF REPORT)