

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: P562394

Luminaire Tested: **SQ4-PW1-100U-125D-92765-1D-UNV-STD-W-4 (5700K)**

Issue Date: 7/30/2021

Test Information

Test Method: LM-79-2019
Report Number: P562394
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2101-105-51, 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-92765-1D-UNV-STD-W-4 (5700K)
Description: CORELITE SQ4 SUSPENDED LED LUMINAIRE WITH PERCEIVE WAVES CONTINUOUS LENS
DOWNLIGHT 1250 LUMENS PER FOOT
UPLIGHT 1000 LUMENS PER FOOT
Light Source: 2700K/65000K CCT, 90 CRI LEDS, TUNED TO 5700K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

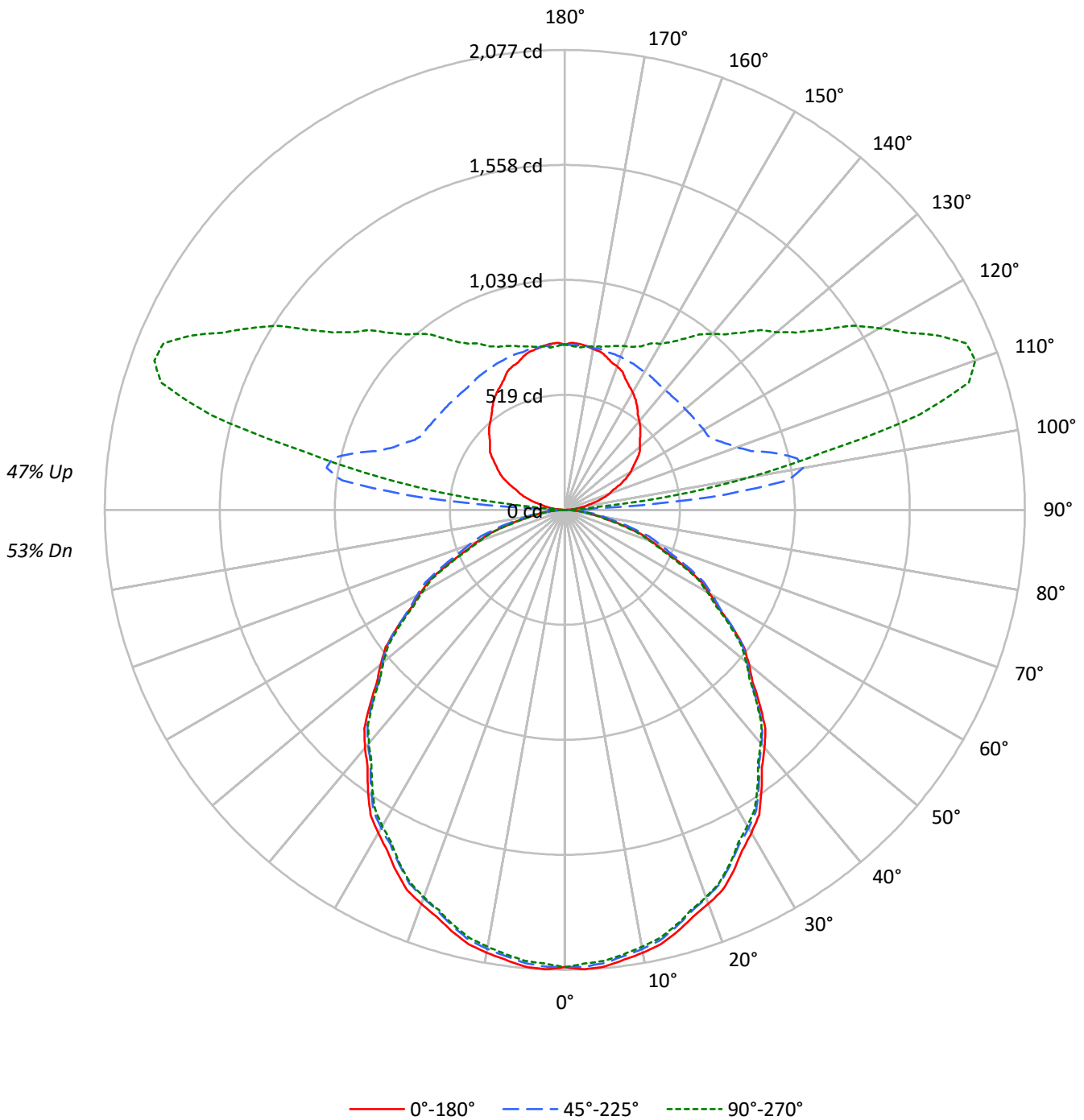
Lumens per Lamp: N/A
Luminaire Lumens: 9893.6 lumens
Efficiency: N/A
Efficacy: 112.6 lumens/watt
Spacing Criteria (0/90/45): 1.22 / 1.19 / 1.31
Luminous Opening: Rectangular (W 0.29' x L: 4' x H: 0')
CIE Type: General Diffuse

Input Watts (W): 87.9
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	108	108	108	108	100	100	100	100	85	85	85	71	71	71	59	59	59	53				
1	99	94	90	87	91	88	84	81	75	72	70	63	61	60	52	51	50	45				
2	90	82	76	71	83	77	71	67	66	62	58	56	53	50	46	44	42	38				
3	82	73	65	59	76	67	61	56	58	53	49	49	45	42	41	38	36	32				
4	75	64	56	50	69	60	53	47	52	46	42	44	40	36	37	34	31	28				
5	69	57	49	43	64	53	46	41	46	40	36	39	35	32	33	30	27	24				
6	64	51	43	37	59	48	41	35	42	36	32	36	31	28	30	27	24	21				
7	59	46	38	33	54	43	36	31	38	32	28	32	28	24	27	24	21	19				
8	55	42	34	29	50	39	32	28	34	29	25	30	25	22	25	22	19	17				
9	51	39	31	26	47	36	29	25	32	26	22	27	23	20	23	20	17	15				
10	47	35	28	23	44	33	27	22	29	24	20	25	21	18	22	18	16	14				

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	19053	19053	19053
5°	19176	19024	18940
10°	19023	18869	18767
15°	18821	18612	18543
20°	18596	18310	18275
25°	18336	18003	17947
30°	17949	17677	17561
35°	17439	17193	17091
40°	16895	16631	16566
45°	16238	16024	15954
50°	15565	15434	15329
55°	14839	14839	14604
60°	13933	14201	13697
65°	12749	13385	12433
70°	11238	12320	10944
75°	9600	11026	9340
80°	7444	9282	7539
85°	4817	7124	6352



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	194.5	2.0
10°-20°	549.0	5.5
20°-30°	814.4	8.2
30°-40°	952.9	9.6
40°-50°	948.6	9.6
50°-60°	819.2	8.3
60°-70°	589.6	6.0
70°-80°	309.2	3.1
80°-90°	76.7	0.8
90°-100°	340.3	3.4
100°-110°	968.4	9.8
110°-120°	927.8	9.4
120°-130°	734.4	7.4
130°-140°	589.4	6.0
140°-150°	461.5	4.7
150°-160°	337.6	3.4
160°-170°	209.1	2.1
170°-180°	71.0	0.7
0°-30°	1557.8	15.7
0°-40°	2510.7	25.4
0°-60°	4278.5	43.2
0°-90°	5254.0	53.1
90°-120°	2236.6	22.6
90°-150°	4021.8	40.7
90°-180°	4640.0	46.9
0°-180°	9893.6	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2065	2065	2065	2065	2065	
5°	2070	2047	2054	2049	2045	196
15°	1970	1946	1949	1945	1941	555
25°	1801	1771	1768	1758	1763	828
35°	1548	1527	1526	1512	1517	968
45°	1244	1234	1228	1224	1223	960
55°	922	921	922	910	908	823
65°	584	602	613	589	570	579
75°	269	294	309	289	262	289
85°	46	60	67	64	60	60
90°	0	0	0	0	0	3
95°	37	147	659	228	141	42
105°	150	228	987	1743	1657	159
115°	280	338	748	1585	1862	275
125°	395	438	714	1185	1417	353
135°	483	523	706	1001	1132	373
145°	569	599	711	866	944	356
155°	650	666	728	783	815	301
165°	718	721	737	753	764	202
175°	753	748	746	741	736	71
180°	747	747	747	747	747	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2065.1	2065.1	2065.1	2065.1	2065.1
2.5°	2076.7	2059.6	2065.1	2060.5	2050.5
5°	2070.5	2047.4	2054.1	2048.6	2045.0
7.5°	2049.4	2028.1	2033.0	2027.2	2025.0
10°	2030.5	2009.1	2014.1	2006.7	2003.2
12.5°	2008.6	1985.9	1990.8	1983.5	1981.4
15°	1970.4	1945.5	1948.6	1944.9	1941.3
17.5°	1926.0	1900.8	1901.3	1895.5	1894.8
20°	1894.0	1867.3	1864.9	1857.7	1861.3
22.5°	1859.1	1831.0	1828.5	1818.4	1823.4
25°	1801.2	1771.0	1768.5	1757.7	1763.0
27.5°	1734.3	1704.4	1704.4	1689.3	1695.0
30°	1684.8	1656.3	1659.3	1641.3	1648.4
32.5°	1632.4	1606.8	1608.4	1590.3	1597.5
35°	1548.3	1527.0	1526.5	1512.1	1517.4
37.5°	1462.5	1443.6	1440.6	1432.3	1433.7
40°	1402.8	1386.8	1380.9	1375.5	1375.5
42.5°	1340.2	1325.6	1319.8	1315.8	1314.4
45°	1244.5	1233.8	1228.1	1224.4	1222.7
47.5°	1149.9	1139.9	1135.0	1132.4	1130.6
50°	1084.4	1077.3	1075.3	1069.8	1068.0
52.5°	1018.9	1014.6	1012.7	1005.7	1004.0
55°	922.5	920.7	922.5	909.7	907.9
57.5°	822.0	824.9	830.8	813.6	809.3
60°	755.1	762.2	769.6	749.4	742.3
62.5°	686.7	698.0	708.5	685.3	675.4
65°	584.0	601.8	613.1	589.1	569.5
67.5°	485.1	507.1	520.7	494.7	472.7
70°	416.6	441.6	456.7	430.6	405.7
72.5°	357.0	384.7	397.0	372.4	347.5
75°	269.3	294.2	309.3	288.7	262.0
77.5°	191.0	214.5	227.1	209.1	187.0
80°	140.1	165.0	174.7	159.7	141.9
82.5°	99.3	120.0	126.6	117.6	105.5
85°	45.5	59.7	67.3	63.6	60.0
87.5°	11.6	21.6	27.7	27.7	29.1
90°	0.0	0.0	0.0	0.0	0.0
92.5°	11.4	60.2	139.7	40.7	30.7
95°	36.9	146.6	658.9	228.0	140.6
97.5°	67.9	171.7	1014.7	726.1	497.6
100°	89.5	186.6	1092.0	1106.1	852.0
102.5°	113.3	202.7	1074.9	1415.8	1193.9
105°	150.5	228.3	986.9	1743.2	1657.1
107.5°	188.3	258.0	884.1	1835.5	1912.1
110°	214.4	279.7	825.0	1800.2	1972.3



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	239.4	301.3	785.2	1716.7	1962.1
115°	279.7	338.0	748.3	1585.3	1861.6
117.5°	315.2	369.9	726.5	1441.7	1734.4
120°	343.6	389.5	724.2	1359.6	1640.1
122.5°	366.4	412.2	718.5	1287.6	1548.1
125°	394.8	437.8	714.2	1185.3	1417.1
127.5°	425.7	466.0	712.0	1124.1	1315.2
130°	441.6	481.9	708.6	1081.5	1248.2
132.5°	458.7	497.8	708.6	1048.3	1201.6
135°	482.8	523.1	705.7	1001.2	1131.7
137.5°	505.5	544.7	705.4	961.3	1074.1
140°	522.6	562.8	704.3	928.3	1036.6
142.5°	541.9	575.5	707.7	901.9	999.1
145°	569.4	598.6	711.4	866.5	944.3
147.5°	593.0	621.3	717.7	830.8	898.0
150°	613.4	632.9	719.9	819.0	866.2
152.5°	629.3	649.9	722.2	803.0	846.9
155°	650.3	665.6	728.4	783.1	815.1
157.5°	676.5	685.6	729.9	774.1	796.9
160°	690.1	697.1	735.5	767.2	786.7
162.5°	698.1	706.1	736.7	761.4	776.4
165°	718.5	721.3	737.0	752.8	763.9
167.5°	732.4	729.9	743.5	750.7	755.1
170°	737.0	735.6	741.2	742.8	748.3
172.5°	747.2	742.5	744.6	740.5	744.9
175°	752.6	748.4	745.5	741.1	735.5
177.5°	754.9	748.2	744.6	740.1	741.2
180°	746.9	746.9	746.9	746.9	746.9

(END OF REPORT)