

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: P562028

Luminaire Tested: **SQ4-PR1-100U-125D-92765-1D-UNV-STD-W-4 (4500K)**

Issue Date: 7/30/2021

Test Information

Test Method: LM-79-2019
Report Number: P562028
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2101-105-51, G2-2106-289-4)
Test Lab: INNOVATION CENTER
Issue Date: 7/30/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: CORELITE
Catalog Number: SQ4-PR1-100U-125D-92765-1D-UNV-STD-W-4 (4500K)
Description: CORELITE SQ4 SUSPENDED LED LUMINAIRE WITH PERCEIVE RIPPLE CONTINUOUS LENS
DOWNLIGHT 1250 LUMENS PER FOOT
UPLIGHT 1000 LUMENS PER FOOT
Light Source: 2700K/65000K CCT, 90 CRI LEDS, TUNED TO 4500K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

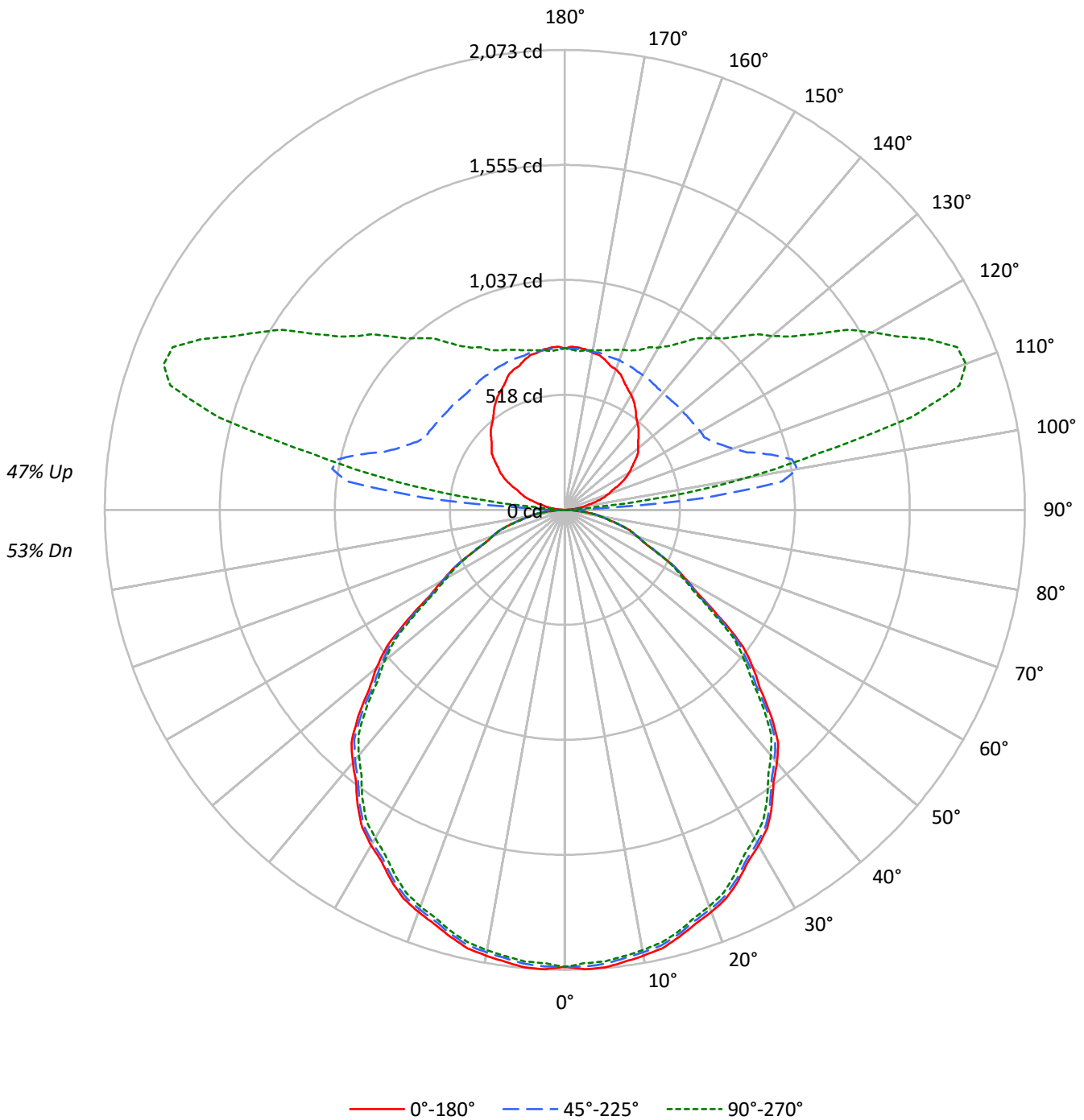
Lumens per Lamp: N/A
Luminaire Lumens: 9673.9 lumens
Efficiency: N/A
Efficacy: 109.8 lumens/watt
Spacing Criteria (0/90/45): 1.26 / 1.24 / 1.35
Luminous Opening: Rectangular (W 0.29' x L: 4' x H: 0')
CIE Type: General Diffuse

Input Watts (W): 88.1
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	85	85	85	72	72	72	59	59	59	53
1	99	95	91	87	91	88	85	82	75	73	71	63	62	60	53	52	51	45
2	90	83	77	72	83	77	72	67	66	62	59	56	53	51	47	45	43	39
3	83	73	66	60	76	68	62	57	59	54	50	50	46	43	42	39	37	33
4	76	65	57	51	70	61	54	48	52	47	43	45	41	37	37	34	32	29
5	69	58	50	44	64	54	47	42	47	41	37	40	36	32	34	31	28	25
6	64	52	44	38	59	49	42	36	42	37	32	36	32	29	31	27	25	22
7	59	47	39	34	55	44	37	32	38	33	29	33	29	25	28	25	22	20
8	55	43	35	30	51	40	33	28	35	29	25	30	26	23	26	22	20	18
9	51	39	32	27	48	37	30	25	32	27	23	28	24	20	24	20	18	16
10	48	36	29	24	44	34	27	23	30	24	21	26	21	18	22	19	16	14

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	19005	19005	19005
5°	19176	19029	18929
10°	19116	18983	18882
15°	19032	18913	18811
20°	18936	18814	18674
25°	18802	18676	18459
30°	18600	18467	18203
35°	18325	18165	17905
40°	17907	17714	17394
45°	17177	16876	16529
50°	15891	15509	15203
55°	13870	13557	13270
60°	11688	11590	11361
65°	10110	10149	10071
70°	9285	9334	9334
75°	8919	8919	8980
80°	8389	8485	8389
85°	6764	7516	7516



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	194.8	2.0
10°-20°	557.3	5.8
20°-30°	840.6	8.7
30°-40°	1001.6	10.4
40°-50°	987.5	10.2
50°-60°	754.7	7.8
60°-70°	467.0	4.8
70°-80°	265.3	2.7
80°-90°	80.7	0.8
90°-100°	331.9	3.4
100°-110°	944.4	9.8
110°-120°	904.8	9.4
120°-130°	716.1	7.4
130°-140°	574.8	5.9
140°-150°	450.0	4.7
150°-160°	329.3	3.4
160°-170°	203.9	2.1
170°-180°	69.2	0.7
0°-30°	1592.8	16.5
0°-40°	2594.4	26.8
0°-60°	4336.5	44.8
0°-90°	5149.5	53.2
90°-120°	2181.1	22.5
90°-150°	3921.9	40.5
90°-180°	4524.0	46.8
0°-180°	9673.9	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2060	2060	2060	2060	2060	
5°	2070	2048	2055	2047	2044	196
15°	1992	1972	1980	1973	1969	562
25°	1847	1824	1835	1815	1813	850
35°	1627	1608	1613	1592	1590	1015
45°	1316	1299	1293	1270	1267	1009
55°	862	848	843	828	825	773
65°	463	460	465	461	461	469
75°	250	250	250	252	252	264
85°	64	67	71	71	71	74
90°	0	0	0	0	0	4
95°	36	143	642	222	137	41
105°	147	223	962	1700	1616	155
115°	273	330	730	1546	1815	269
125°	385	427	696	1156	1382	345
135°	471	510	688	976	1104	363
145°	555	584	694	845	921	347
155°	634	649	710	764	795	293
165°	701	703	719	734	745	197
175°	734	730	727	723	717	70
180°	728	728	728	728	728	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2059.9	2059.9	2059.9	2059.9	2059.9
2.5°	2072.7	2054.6	2059.9	2055.4	2045.7
5°	2070.5	2048.0	2054.6	2047.4	2043.9
7.5°	2054.6	2032.4	2039.0	2031.8	2029.7
10°	2040.4	2019.6	2026.2	2019.0	2015.5
12.5°	2024.8	2002.6	2010.6	2002.0	1998.5
15°	1992.5	1971.7	1980.1	1972.9	1969.4
17.5°	1957.0	1934.8	1943.1	1934.9	1930.4
20°	1928.6	1907.8	1916.2	1903.7	1902.0
22.5°	1897.4	1876.6	1885.0	1868.3	1867.9
25°	1847.0	1824.4	1834.6	1815.0	1813.3
27.5°	1787.0	1766.2	1774.6	1754.7	1752.6
30°	1745.9	1725.0	1733.4	1712.1	1708.6
32.5°	1699.0	1679.6	1686.6	1665.3	1663.2
35°	1627.0	1607.9	1612.8	1591.5	1589.7
37.5°	1545.0	1527.7	1530.5	1507.0	1505.3
40°	1486.8	1469.5	1470.8	1446.0	1444.2
42.5°	1422.9	1405.6	1404.1	1379.3	1377.5
45°	1316.5	1299.1	1293.4	1270.3	1266.8
47.5°	1195.1	1177.8	1167.1	1148.2	1145.8
50°	1107.1	1089.8	1080.5	1064.4	1059.2
52.5°	1012.0	994.7	986.8	972.2	967.0
55°	862.3	848.4	842.8	828.5	825.0
57.5°	720.0	710.6	709.0	695.1	693.7
60°	633.4	628.2	628.1	615.7	615.7
62.5°	559.6	555.8	558.5	550.3	548.9
65°	463.1	459.6	464.9	461.3	461.3
67.5°	386.8	386.8	390.0	388.6	388.6
70°	344.2	344.2	346.0	346.0	346.0
72.5°	305.9	304.5	309.1	309.0	307.7
75°	250.2	250.2	250.2	251.9	251.9
77.5°	194.8	195.2	196.6	196.2	194.8
80°	157.9	159.6	159.7	157.9	157.9
82.5°	121.0	122.7	122.8	122.4	121.0
85°	63.9	67.3	71.0	71.0	71.0
87.5°	18.5	24.0	28.4	28.4	27.0
90°	0.0	0.0	0.0	0.0	0.0
92.5°	11.1	58.7	136.3	39.7	29.9
95°	36.0	143.0	642.5	222.4	137.1
97.5°	66.2	167.5	989.5	708.1	485.2
100°	87.2	182.0	1064.8	1078.6	830.8
102.5°	110.5	197.7	1048.2	1380.6	1164.3
105°	146.8	222.6	962.4	1699.9	1616.0
107.5°	183.6	251.6	862.1	1789.9	1864.7
110°	209.1	272.7	804.5	1755.5	1923.4



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	233.5	293.8	765.7	1674.0	1913.4
115°	272.8	329.7	729.7	1545.9	1815.4
117.5°	307.4	360.8	708.4	1405.9	1691.3
120°	335.1	379.8	706.2	1325.8	1599.3
122.5°	357.3	401.9	700.7	1255.6	1509.6
125°	385.0	426.9	696.5	1155.8	1381.9
127.5°	415.1	454.4	694.3	1096.2	1282.5
130°	430.6	469.9	691.0	1054.7	1217.2
132.5°	447.3	485.4	691.0	1022.3	1171.7
135°	470.8	510.1	688.2	976.3	1103.6
137.5°	493.0	531.1	687.9	937.5	1047.4
140°	509.6	548.8	686.8	905.2	1010.8
142.5°	528.4	561.2	690.1	879.5	974.3
145°	555.3	583.7	693.7	845.0	920.8
147.5°	578.3	605.9	699.8	810.2	875.7
150°	598.2	617.2	702.0	798.6	844.7
152.5°	613.7	633.7	704.3	783.1	825.8
155°	634.2	649.1	710.4	763.7	794.8
157.5°	659.7	668.6	711.7	754.9	777.1
160°	673.0	679.7	717.3	748.2	767.1
162.5°	680.7	688.6	718.4	742.5	757.2
165°	700.7	703.4	718.7	734.1	745.0
167.5°	714.2	711.8	725.0	732.1	736.4
170°	718.7	717.3	722.8	724.3	729.7
172.5°	728.6	724.0	726.1	722.1	726.4
175°	733.9	729.8	727.0	722.7	717.3
177.5°	736.1	729.6	726.1	721.7	722.8
180°	728.4	728.4	728.4	728.4	728.4

(END OF REPORT)