

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: P562027

Luminaire Tested: **SQ4-PR1-100U-125D-92765-1D-UNV-STD-W-4 (4000K)**

Issue Date: 7/30/2021

Test Information

Test Method: LM-79-2019
Report Number: P562027
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 (4000K)
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 4000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 9520.3 lumens
Efficiency: N/A
Efficacy: 107.9 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

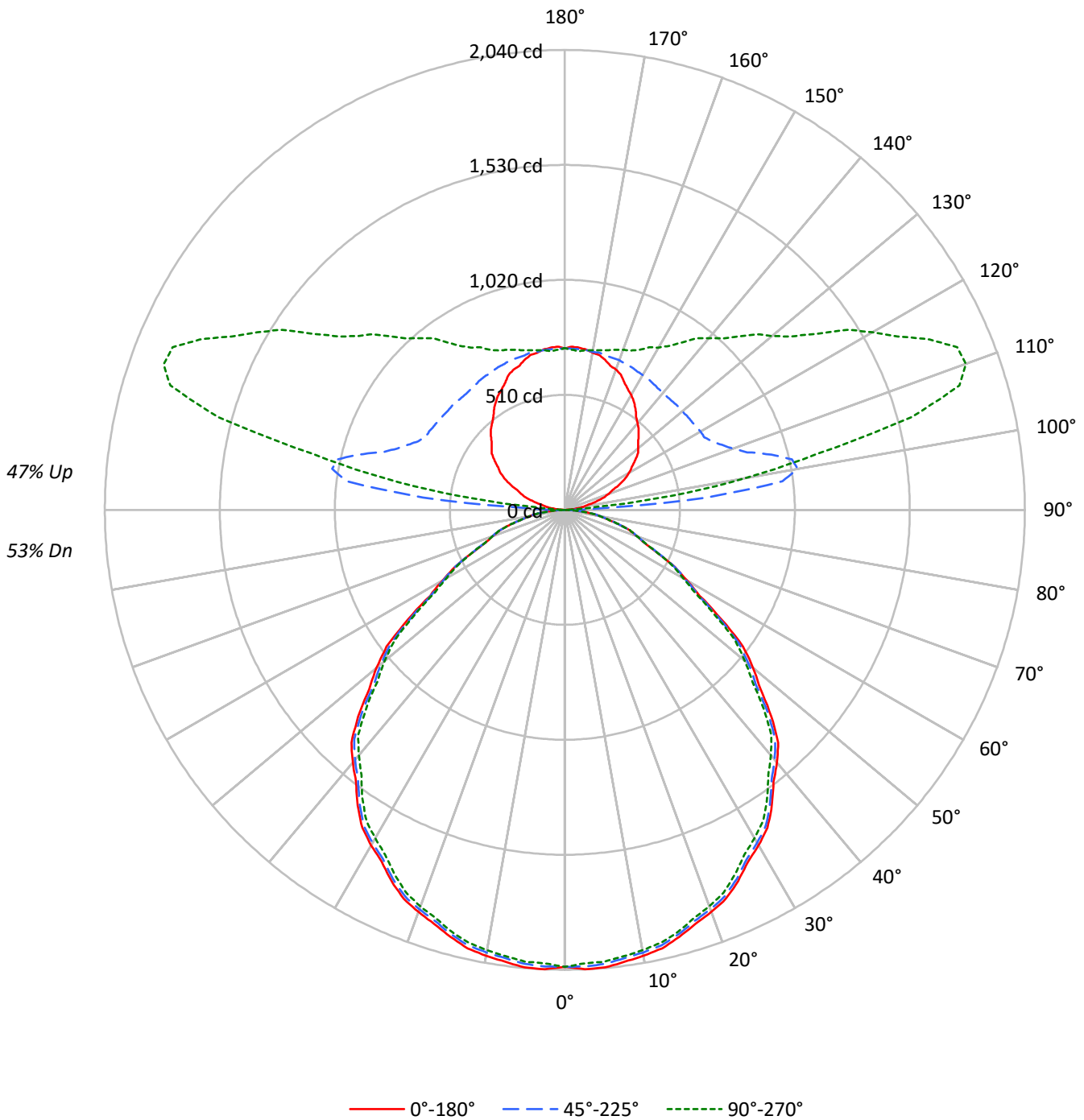
Input Watts (W): 88.2
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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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°	18703	18703	18703
5°	18872	18727	18629
10°	18812	18681	18582
15°	18729	18612	18512
20°	18635	18515	18378
25°	18504	18379	18166
30°	18304	18174	17914
35°	18033	17877	17621
40°	17623	17434	17118
45°	16905	16609	16267
50°	15639	15263	14962
55°	13650	13341	13060
60°	11501	11405	11180
65°	9948	9988	9911
70°	9137	9185	9185
75°	8776	8776	8837
80°	8257	8347	8257
85°	6659	7389	7389



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	191.7	2.0
10°-20°	548.5	5.8
20°-30°	827.3	8.7
30°-40°	985.7	10.4
40°-50°	971.8	10.2
50°-60°	742.7	7.8
60°-70°	459.6	4.8
70°-80°	261.1	2.7
80°-90°	79.4	0.8
90°-100°	326.6	3.4
100°-110°	929.4	9.8
110°-120°	890.4	9.4
120°-130°	704.7	7.4
130°-140°	565.7	5.9
140°-150°	442.8	4.7
150°-160°	324.0	3.4
160°-170°	200.7	2.1
170°-180°	68.1	0.7
0°-30°	1567.5	16.5
0°-40°	2553.2	26.8
0°-60°	4267.7	44.8
0°-90°	5067.8	53.2
90°-120°	2146.4	22.5
90°-150°	3859.7	40.5
90°-180°	4453.0	46.8
0°-180°	9520.3	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2027	2027	2027	2027	2027	
5°	2038	2016	2022	2015	2012	193
15°	1961	1940	1949	1942	1938	553
25°	1818	1796	1805	1786	1784	836
35°	1601	1582	1587	1566	1564	999
45°	1296	1278	1273	1250	1247	993
55°	849	835	829	815	812	760
65°	456	452	458	454	454	462
75°	246	246	246	248	248	260
85°	63	66	70	70	70	73
90°	0	0	0	0	0	4
95°	35	141	632	219	135	40
105°	144	219	947	1673	1590	153
115°	268	324	718	1521	1786	264
125°	379	420	686	1138	1360	339
135°	463	502	677	961	1086	358
145°	546	574	683	832	906	341
155°	624	639	699	752	782	289
165°	690	692	707	722	733	194
175°	722	718	715	711	706	68
180°	717	717	717	717	717	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2027.2	2027.2	2027.2	2027.2	2027.2
2.5°	2039.8	2022.0	2027.2	2022.8	2013.2
5°	2037.7	2015.5	2022.0	2014.9	2011.5
7.5°	2022.0	2000.1	2006.6	1999.6	1997.5
10°	2008.0	1987.5	1994.0	1987.0	1983.5
12.5°	1992.6	1970.8	1978.7	1970.2	1966.8
15°	1960.8	1940.4	1948.6	1941.6	1938.1
17.5°	1925.9	1904.1	1912.3	1904.2	1899.7
20°	1898.0	1877.5	1885.8	1873.5	1871.8
22.5°	1867.3	1846.8	1855.0	1838.6	1838.3
25°	1817.7	1795.5	1805.4	1786.2	1784.5
27.5°	1758.6	1738.2	1746.4	1726.8	1724.8
30°	1718.1	1697.6	1705.9	1684.9	1681.5
32.5°	1672.0	1652.9	1659.8	1638.8	1636.8
35°	1601.1	1582.4	1587.2	1566.2	1564.5
37.5°	1520.5	1503.4	1506.2	1483.1	1481.4
40°	1463.2	1446.1	1447.5	1423.0	1421.3
42.5°	1400.4	1383.3	1381.8	1357.4	1355.7
45°	1295.6	1278.5	1272.9	1250.1	1246.7
47.5°	1176.2	1159.1	1148.6	1130.0	1127.6
50°	1089.6	1072.5	1063.4	1047.5	1042.4
52.5°	996.0	978.9	971.2	956.7	951.6
55°	848.6	834.9	829.4	815.3	811.9
57.5°	708.6	699.3	697.7	684.1	682.7
60°	623.3	618.2	618.1	605.9	605.9
62.5°	550.7	547.0	549.7	541.6	540.2
65°	455.7	452.3	457.5	454.0	454.0
67.5°	380.6	380.6	383.8	382.4	382.4
70°	338.7	338.7	340.5	340.5	340.5
72.5°	301.0	299.7	304.2	304.1	302.8
75°	246.2	246.2	246.2	247.9	247.9
77.5°	191.7	192.1	193.5	193.1	191.7
80°	155.4	157.1	157.1	155.4	155.4
82.5°	119.1	120.8	120.8	120.4	119.1
85°	62.9	66.3	69.8	69.8	69.8
87.5°	18.2	23.6	27.9	27.9	26.5
90°	0.0	0.0	0.0	0.0	0.0
92.5°	10.9	57.8	134.1	39.0	29.4
95°	35.4	140.7	632.3	218.9	134.9
97.5°	65.1	164.8	973.8	696.8	477.5
100°	85.9	179.1	1047.9	1061.5	817.6
102.5°	108.7	194.6	1031.6	1358.7	1145.8
105°	144.4	219.1	947.1	1672.9	1590.3
107.5°	180.7	247.6	848.4	1761.5	1835.1
110°	205.8	268.4	791.7	1727.6	1892.8

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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	229.8	289.2	753.6	1647.4	1883.0
115°	268.5	324.4	718.2	1521.4	1786.5
117.5°	302.5	355.0	697.2	1383.6	1664.4
120°	329.8	373.8	695.0	1304.8	1574.0
122.5°	351.6	395.6	689.5	1235.7	1485.7
125°	378.8	420.1	685.5	1137.5	1360.0
127.5°	408.5	447.2	683.3	1078.8	1262.2
130°	423.8	462.5	680.0	1037.9	1197.8
132.5°	440.2	477.7	680.0	1006.0	1153.1
135°	463.3	502.0	677.3	960.8	1086.1
137.5°	485.1	522.7	677.0	922.6	1030.8
140°	501.5	540.1	675.9	890.9	994.8
142.5°	520.0	552.3	679.2	865.5	958.8
145°	546.5	574.4	682.7	831.6	906.2
147.5°	569.1	596.3	688.7	797.3	861.8
150°	588.7	607.4	690.9	786.0	831.3
152.5°	604.0	623.7	693.1	770.6	812.7
155°	624.1	638.8	699.1	751.6	782.2
157.5°	649.2	658.0	700.4	742.9	764.8
160°	662.3	668.9	705.9	736.3	755.0
162.5°	669.9	677.6	707.0	730.8	745.1
165°	689.5	692.2	707.3	722.5	733.1
167.5°	702.9	700.5	713.5	720.4	724.7
170°	707.3	705.9	711.3	712.8	718.2
172.5°	717.1	712.5	714.6	710.6	714.9
175°	722.2	718.3	715.4	711.2	705.9
177.5°	724.4	718.0	714.6	710.3	711.3
180°	716.8	716.8	716.8	716.8	716.8

(END OF REPORT)