

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: P562031

Luminaire Tested: **SQ4-PR1-100U-125D-92765-1D-UNV-STD-W-4 (6500K)**

Issue Date: 7/30/2021

Test Information

Test Method: LM-79-2019
Report Number: P562031
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 (6500K)
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 6500K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

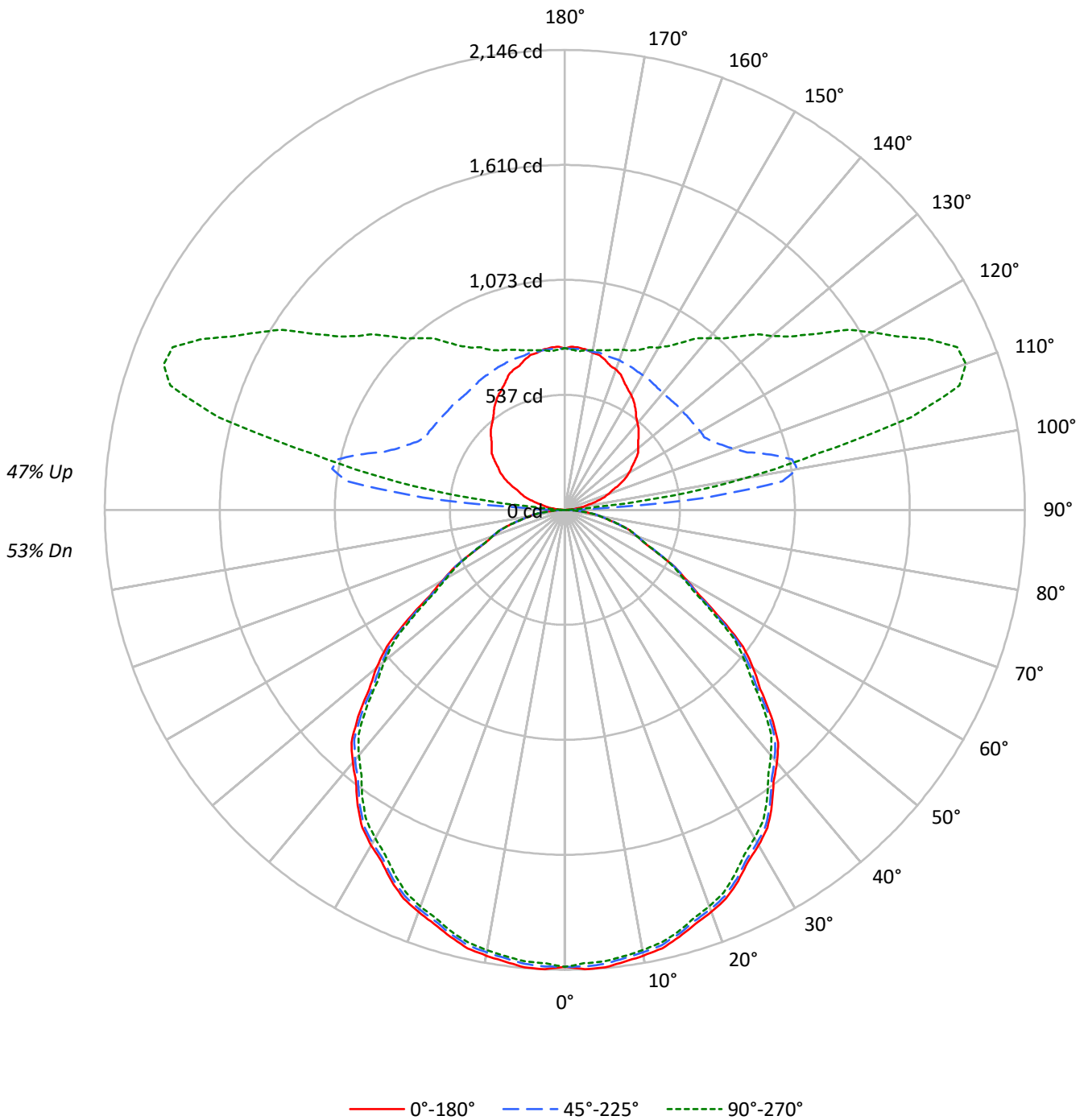
Lumens per Lamp: N/A
Luminaire Lumens: 10014.3 lumens
Efficiency: N/A
Efficacy: 114.3 lumens/watt
Spacing Criteria (0/90/45): 1.26 / 1.24 / 1.35
Luminous Opening: Rectangular (W 0.29' x L: 4' x H: 0')
CIE Type: General Diffuse

Input Watts (W): 87.6
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°	19674	19674	19674
5°	19851	19698	19595
10°	19788	19650	19547
15°	19701	19578	19473
20°	19602	19476	19331
25°	19464	19333	19109
30°	19254	19117	18843
35°	18969	18804	18536
40°	18537	18338	18007
45°	17782	17470	17111
50°	16450	16054	15739
55°	14358	14033	13739
60°	12099	11998	11760
65°	10466	10505	10424
70°	9611	9663	9663
75°	9233	9233	9297
80°	8687	8783	8687
85°	6997	7781	7781



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	201.7	2.0
10°-20°	576.9	5.8
20°-30°	870.2	8.7
30°-40°	1036.8	10.4
40°-50°	1022.2	10.2
50°-60°	781.2	7.8
60°-70°	483.5	4.8
70°-80°	274.6	2.7
80°-90°	83.5	0.8
90°-100°	343.6	3.4
100°-110°	977.6	9.8
110°-120°	936.6	9.4
120°-130°	741.3	7.4
130°-140°	595.0	5.9
140°-150°	465.8	4.7
150°-160°	340.8	3.4
160°-170°	211.1	2.1
170°-180°	71.6	0.7
0°-30°	1648.8	16.5
0°-40°	2685.6	26.8
0°-60°	4489.1	44.8
0°-90°	5330.7	53.2
90°-120°	2257.8	22.5
90°-150°	4059.9	40.5
90°-180°	4684.0	46.8
0°-180°	10014.3	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2132	2132	2132	2132	2132	
5°	2143	2120	2127	2119	2116	203
15°	2063	2041	2050	2042	2039	582
25°	1912	1889	1899	1879	1877	880
35°	1684	1664	1670	1648	1646	1051
45°	1363	1345	1339	1315	1311	1044
55°	893	878	872	858	854	800
65°	479	476	481	478	478	486
75°	259	259	259	261	261	274
85°	66	70	74	74	74	77
90°	0	0	0	0	0	4
95°	37	148	665	230	142	43
105°	152	230	996	1760	1673	161
115°	282	341	755	1600	1879	278
125°	398	442	721	1196	1431	357
135°	487	528	712	1011	1142	376
145°	575	604	718	875	953	359
155°	656	672	735	791	823	303
165°	725	728	744	760	771	204
175°	760	756	753	748	742	72
180°	754	754	754	754	754	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2132.4	2132.4	2132.4	2132.4	2132.4
2.5°	2145.6	2126.9	2132.4	2127.7	2117.7
5°	2143.4	2120.1	2126.9	2119.4	2115.8
7.5°	2126.9	2103.9	2110.7	2103.3	2101.2
10°	2112.2	2090.6	2097.5	2090.1	2086.5
12.5°	2096.0	2073.0	2081.3	2072.4	2068.8
15°	2062.6	2041.0	2049.7	2042.3	2038.7
17.5°	2025.9	2002.9	2011.5	2003.0	1998.3
20°	1996.5	1974.9	1983.6	1970.7	1968.9
22.5°	1964.1	1942.6	1951.3	1934.0	1933.7
25°	1912.0	1888.6	1899.1	1878.9	1877.1
27.5°	1849.9	1828.3	1837.0	1816.4	1814.3
30°	1807.3	1785.7	1794.4	1772.3	1768.7
32.5°	1758.8	1738.7	1745.9	1723.9	1721.7
35°	1684.2	1664.5	1669.5	1647.5	1645.7
37.5°	1599.4	1581.4	1584.3	1560.0	1558.2
40°	1539.1	1521.2	1522.6	1496.8	1495.1
42.5°	1473.0	1455.1	1453.5	1427.8	1426.0
45°	1362.8	1344.9	1338.9	1315.0	1311.4
47.5°	1237.2	1219.2	1208.2	1188.6	1186.1
50°	1146.1	1128.1	1118.5	1101.9	1096.5
52.5°	1047.6	1029.7	1021.6	1006.4	1001.0
55°	892.6	878.3	872.4	857.6	854.1
57.5°	745.3	735.6	733.9	719.6	718.1
60°	655.7	650.3	650.2	637.3	637.3
62.5°	579.3	575.3	578.2	569.7	568.3
65°	479.4	475.8	481.2	477.5	477.5
67.5°	400.4	400.4	403.7	402.2	402.2
70°	356.3	356.3	358.2	358.2	358.2
72.5°	316.6	315.2	319.9	319.9	318.5
75°	259.0	259.0	259.0	260.8	260.8
77.5°	201.7	202.0	203.5	203.1	201.7
80°	163.5	165.3	165.3	163.5	163.5
82.5°	125.3	127.1	127.1	126.7	125.3
85°	66.1	69.7	73.5	73.5	73.5
87.5°	19.1	24.8	29.4	29.4	27.9
90°	0.0	0.0	0.0	0.0	0.0
92.5°	11.5	60.8	141.1	41.1	31.0
95°	37.3	148.0	665.1	230.2	141.9
97.5°	68.5	173.4	1024.3	733.0	502.3
100°	90.3	188.4	1102.3	1116.6	860.1
102.5°	114.4	204.7	1085.1	1429.2	1205.2
105°	151.9	230.4	996.2	1759.7	1672.8
107.5°	190.1	260.4	892.5	1852.9	1930.3
110°	216.4	282.3	832.8	1817.3	1991.1

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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	241.7	304.2	792.7	1732.9	1980.7
115°	282.4	341.3	755.4	1600.3	1879.2
117.5°	318.2	373.4	733.3	1455.4	1750.8
120°	346.9	393.1	731.1	1372.5	1655.6
122.5°	369.8	416.1	725.3	1299.8	1562.7
125°	398.5	441.9	721.0	1196.5	1430.6
127.5°	429.7	470.4	718.7	1134.8	1327.7
130°	445.8	486.4	715.3	1091.8	1260.0
132.5°	463.0	502.5	715.3	1058.2	1213.0
135°	487.4	528.0	712.4	1010.7	1142.5
137.5°	510.3	549.8	712.1	970.4	1084.3
140°	527.5	568.2	711.0	937.1	1046.4
142.5°	547.0	580.9	714.4	910.5	1008.6
145°	574.8	604.2	718.2	874.7	953.2
147.5°	598.6	627.2	724.5	838.7	906.5
150°	619.2	638.9	726.8	826.7	874.4
152.5°	635.3	656.0	729.0	810.6	854.9
155°	656.5	671.9	735.4	790.6	822.8
157.5°	682.9	692.1	736.8	781.5	804.4
160°	696.7	703.7	742.5	774.5	794.1
162.5°	704.7	712.8	743.7	768.7	783.8
165°	725.3	728.1	744.0	760.0	771.2
167.5°	739.4	736.8	750.6	757.8	762.3
170°	744.0	742.6	748.3	749.8	755.4
172.5°	754.3	749.5	751.7	747.5	752.0
175°	759.7	755.5	752.6	748.1	742.5
177.5°	762.0	755.3	751.7	747.1	748.3
180°	754.0	754.0	754.0	754.0	754.0

(END OF REPORT)