

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: P523860

Luminaire Tested: **SQ4-PP3-100U-100D-92765-1D-UNV-STD-W-4 (6500K)**

Issue Date: 5/24/2021

Test Information

Test Method: LM-79-2019
Report Number: P523860
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2101-105-51, G2-2103-172-1)
Test Lab: INNOVATION CENTER
Issue Date: 5/24/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: CORELITE
Catalog Number: SQ4-PP3-100U-100D-92765-1D-UNV-STD-W-4 (6500K)
Description: CORELITE SQ4 SUSPENDED LED LUMINAIRE WITH PERCEIVE PRISM CONTINUOUS LENS
DOWNLIGHT 1000 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: 8919.0 lumens
Efficiency: N/A
Efficacy: 120.0 lumens/watt
Spacing Criteria (0/90/45): 1.24 / 1.22 / 1.33
Luminous Opening: Rectangular (W 0.29' x L: 4' x H: 0')
CIE Type: General Diffuse

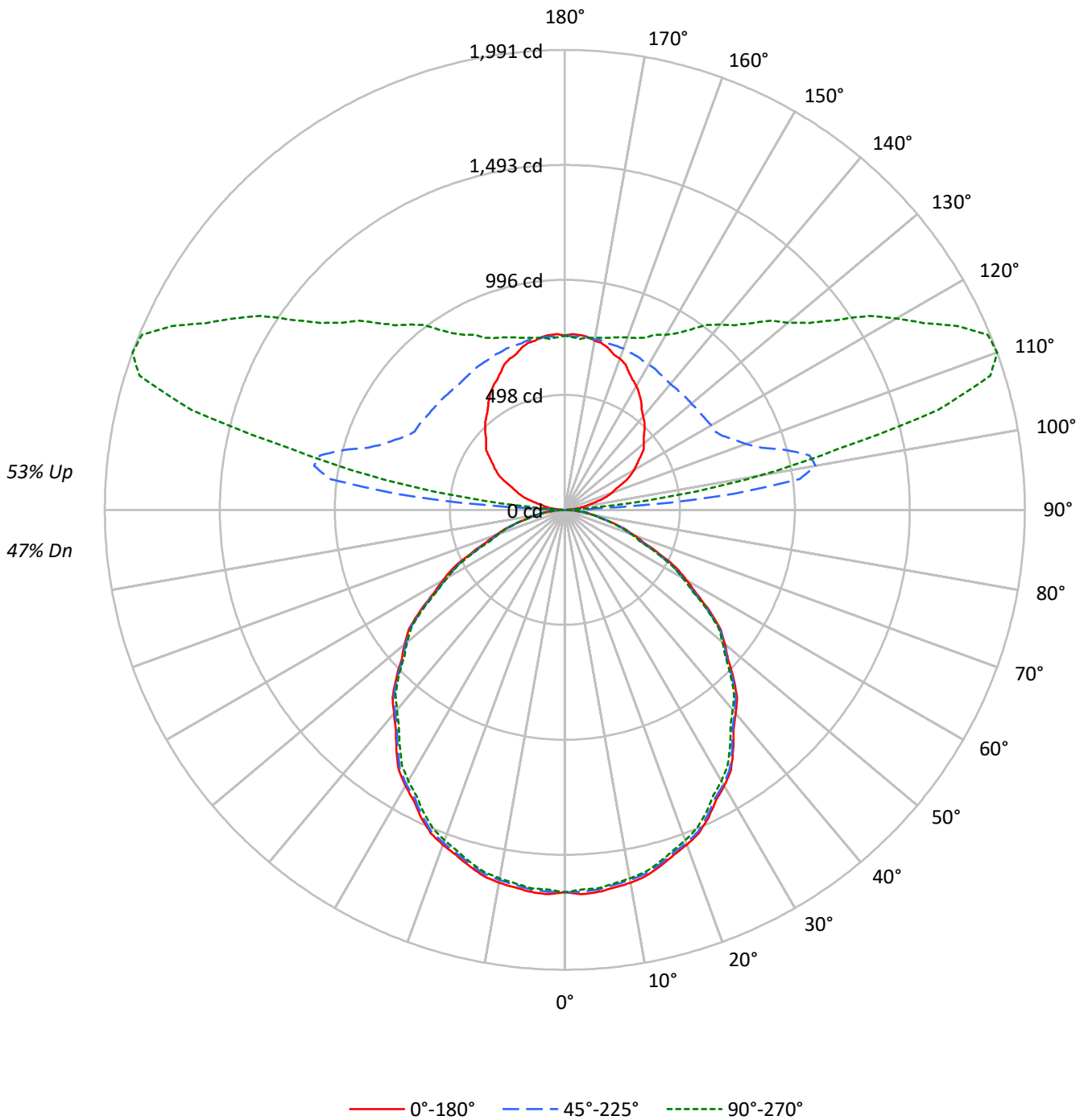
Input Watts (W): 74.3
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Luminous Intensity Polar Plot





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COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

RF	20					20					20					20				
RC	80					70					50					30				
RW	70	50	30	10	70	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	67	67	67	54	54	54	47		
1	97	93	89	86	89	86	83	80	72	70	68	60	58	56	48	47	46	40		
2	89	82	76	71	81	75	70	66	63	60	56	52	50	47	42	41	39	34		
3	81	72	65	59	74	66	60	55	56	51	47	46	43	40	38	35	33	29		
4	74	64	56	50	68	59	52	47	50	45	41	41	38	35	34	31	29	25		
5	68	57	49	43	62	52	45	40	45	39	35	37	33	30	30	27	25	22		
6	63	51	43	37	58	47	40	35	40	35	31	34	29	26	28	24	22	19		
7	58	46	38	32	53	43	36	31	36	31	27	31	26	23	25	22	20	17		
8	54	42	34	29	49	39	32	27	33	28	24	28	24	21	23	20	18	15		
9	50	38	31	26	46	35	29	24	30	25	21	26	22	19	21	18	16	14		
10	47	35	28	23	43	32	26	22	28	23	19	24	20	17	20	17	14	12		

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	15268	15268	15268
5°	15380	15286	15232
10°	15354	15245	15177
15°	15252	15169	15086
20°	15152	15066	14952
25°	14972	14868	14720
30°	14694	14617	14431
35°	14310	14212	14032
40°	13852	13765	13607
45°	13473	13379	13246
50°	12990	12907	12782
55°	12318	12154	12061
60°	11214	10892	10839
65°	9879	9468	9435
70°	8530	8176	8176
75°	7340	7236	7133
80°	6471	6551	6397
85°	5071	5526	5526



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	156.5	1.8
10°-20°	446.8	5.0
20°-30°	669.3	7.5
30°-40°	785.0	8.8
40°-50°	787.4	8.8
50°-60°	671.8	7.5
60°-70°	438.1	4.9
70°-80°	219.8	2.5
80°-90°	60.8	0.7
90°-100°	343.6	3.9
100°-110°	977.6	11.0
110°-120°	936.6	10.5
120°-130°	741.3	8.3
130°-140°	595.0	6.7
140°-150°	465.8	5.2
150°-160°	340.8	3.8
160°-170°	211.1	2.4
170°-180°	71.6	0.8
0°-30°	1272.5	14.3
0°-40°	2057.5	23.1
0°-60°	3516.8	39.4
0°-90°	4235.5	47.5
90°-120°	2257.8	25.3
90°-150°	4059.9	45.5
90°-180°	4684.0	52.5
0°-180°	8919.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1655	1655	1655	1655	1655	
5°	1661	1645	1650	1645	1645	158
15°	1597	1581	1588	1582	1579	451
25°	1471	1454	1460	1447	1446	676
35°	1270	1258	1262	1247	1246	794
45°	1033	1026	1025	1015	1015	795
55°	766	763	756	751	750	681
65°	452	444	434	431	432	452
75°	206	206	203	202	200	223
85°	48	52	52	52	52	56
90°	0	0	0	0	0	3
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°	1654.8	1654.8	1654.8	1654.8	1654.8
2.5°	1665.3	1651.7	1654.8	1652.4	1645.6
5°	1660.6	1645.0	1650.5	1644.7	1644.7
7.5°	1649.3	1632.3	1637.7	1631.9	1631.6
10°	1638.9	1621.9	1627.3	1621.5	1620.0
12.5°	1623.8	1606.8	1613.4	1606.4	1606.1
15°	1596.8	1581.2	1588.1	1582.3	1579.4
17.5°	1566.4	1549.4	1557.7	1549.5	1548.4
20°	1543.2	1526.2	1534.5	1522.9	1522.9
22.5°	1515.3	1498.3	1507.8	1492.7	1492.7
25°	1470.7	1453.6	1460.5	1447.4	1446.0
27.5°	1417.6	1400.8	1408.0	1393.2	1392.9
30°	1379.3	1363.7	1372.0	1356.0	1354.6
32.5°	1337.5	1323.0	1329.1	1313.1	1311.7
35°	1270.5	1257.7	1261.8	1247.3	1245.8
37.5°	1200.0	1187.0	1191.6	1179.1	1178.6
40°	1150.1	1141.6	1142.9	1132.7	1129.8
42.5°	1103.7	1094.1	1095.3	1085.1	1084.6
45°	1032.6	1025.6	1025.4	1015.2	1015.2
47.5°	957.2	951.8	950.3	941.8	941.6
50°	905.0	900.8	899.2	891.9	890.5
52.5°	850.5	848.5	843.5	837.4	837.1
55°	765.8	762.9	755.6	751.2	749.8
57.5°	673.8	668.2	659.9	653.6	654.7
60°	607.7	602.0	590.3	587.4	587.4
62.5°	543.9	537.1	525.3	521.3	523.6
65°	452.5	444.0	433.7	430.8	432.2
67.5°	369.5	361.9	350.7	350.7	349.5
70°	316.2	311.9	303.1	303.1	303.1
72.5°	268.6	266.6	260.2	260.2	259.0
75°	205.9	205.9	203.0	201.6	200.1
77.5°	154.3	154.9	153.4	151.9	149.4
80°	121.8	124.7	123.3	121.8	120.4
82.5°	91.7	94.5	94.3	91.7	91.4
85°	47.9	52.1	52.2	52.2	52.2
87.5°	12.8	17.3	18.6	18.6	19.7
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)