

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: P523755

Luminaire Tested: **SQ4-PP3-075U-100D-92765-1D-UNV-STD-W-4 (5700K)**

Issue Date: 5/24/2021

Test Information

Test Method: LM-79-2019
Report Number: P523755
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-PP3-075U-100D-92765-1D-UNV-STD-W-4 (5700K)
Description: CORELITE SQ4 SUSPENDED LED LUMINAIRE WITH PERCEIVE PRISM CONTINUOUS LENS
DOWNLIGHT 1000 LUMENS PER FOOT
UPLIGHT 750 LUMENS PER FOOT
Light Source: 2700K/65000K CCT, 90 CRI LEDS, TUNED TO 5700K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

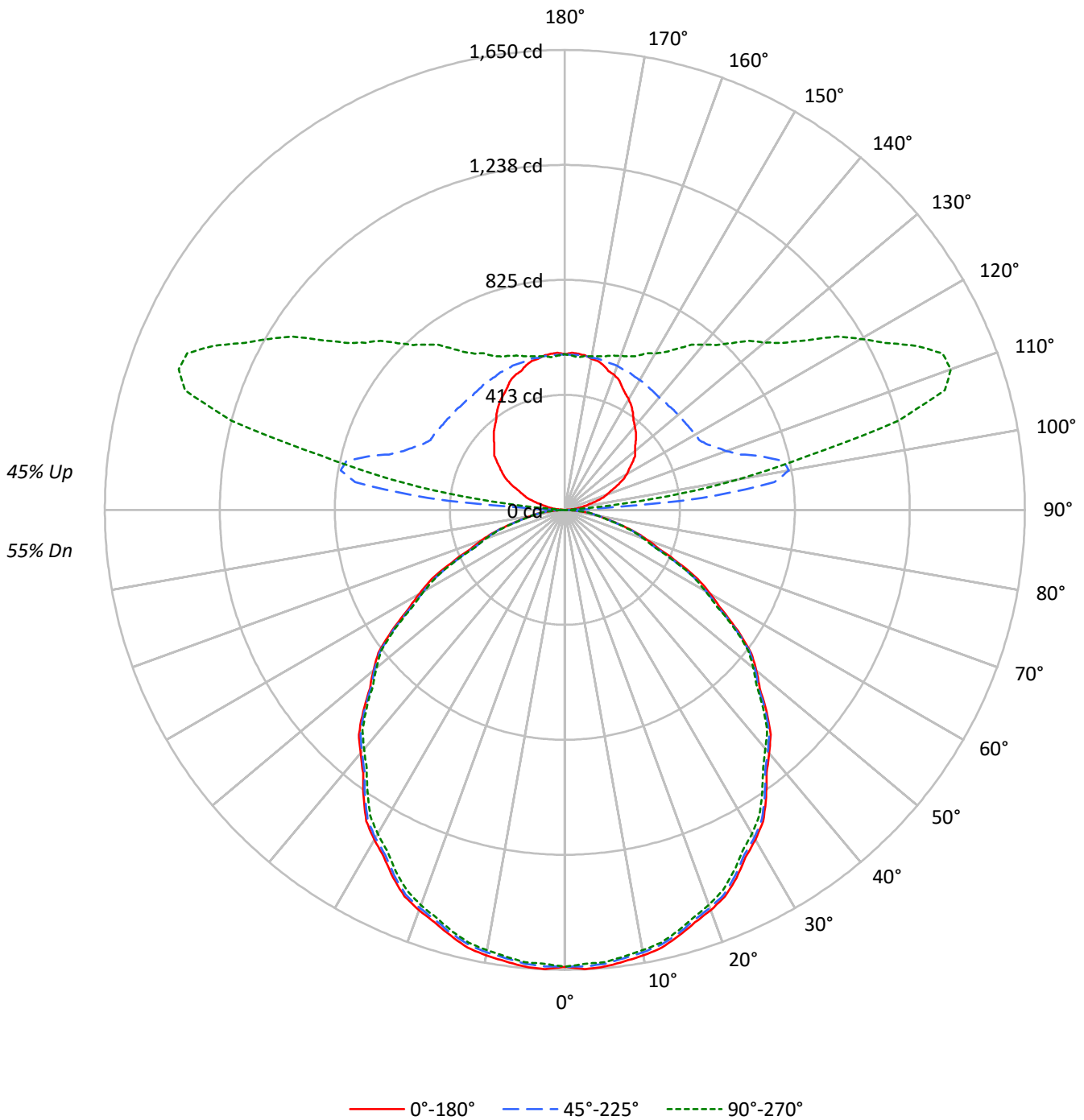
Lumens per Lamp: N/A
Luminaire Lumens: 7662.6 lumens
Efficiency: N/A
Efficacy: 116.3 lumens/watt
Spacing Criteria (0/90/45): 1.24 / 1.22 / 1.33
Luminous Opening: Rectangular (W 0.29' x L: 4' x H: 0')
CIE Type: General Diffuse

Input Watts (W): 65.9
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	0
RCR																		
0	108	108	108	108	100	100	100	100	86	86	86	73	73	73	60	60	60	55
1	99	95	91	88	92	88	85	82	76	73	71	64	63	61	54	53	52	47
2	90	83	77	72	84	77	72	68	67	63	59	57	54	51	48	46	44	39
3	83	73	66	60	76	68	62	57	59	54	50	50	47	44	42	40	37	34
4	76	65	57	51	70	61	54	48	52	47	43	45	41	37	38	35	32	29
5	69	58	50	44	64	54	47	41	47	41	37	40	36	33	34	31	28	25
6	64	52	44	38	59	49	41	36	42	37	32	36	32	29	31	28	25	22
7	59	47	39	33	55	44	37	32	38	33	28	33	29	25	28	25	22	20
8	55	43	35	29	51	40	33	28	35	29	25	30	26	23	26	22	20	18
9	51	39	31	26	48	37	30	25	32	27	23	28	23	20	24	20	18	16
10	48	36	28	24	44	34	27	23	30	24	20	26	21	18	22	19	16	14

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	15125	15125	15125
5°	15235	15142	15089
10°	15210	15102	15035
15°	15109	15027	14945
20°	15009	14925	14812
25°	14830	14728	14582
30°	14556	14479	14296
35°	14176	14079	13900
40°	13722	13635	13480
45°	13347	13254	13122
50°	12868	12786	12661
55°	12202	12040	11948
60°	11108	10789	10737
65°	9787	9379	9346
70°	8449	8101	8101
75°	7272	7169	7069
80°	6413	6487	6333
85°	5018	5473	5473



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	155.0	2.0
10°-20°	442.6	5.8
20°-30°	663.0	8.7
30°-40°	777.6	10.1
40°-50°	780.0	10.2
50°-60°	665.5	8.7
60°-70°	434.0	5.7
70°-80°	217.7	2.8
80°-90°	60.2	0.8
90°-100°	254.3	3.3
100°-110°	723.6	9.4
110°-120°	693.3	9.0
120°-130°	548.7	7.2
130°-140°	440.5	5.7
140°-150°	344.8	4.5
150°-160°	252.3	3.3
160°-170°	156.3	2.0
170°-180°	53.0	0.7
0°-30°	1260.6	16.5
0°-40°	2038.2	26.6
0°-60°	3483.7	45.5
0°-90°	4195.7	54.8
90°-120°	1671.3	21.8
90°-150°	3005.3	39.2
90°-180°	3467.0	45.2
0°-180°	7662.6	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1639	1639	1639	1639	1639	
5°	1645	1630	1635	1629	1629	156
15°	1582	1566	1573	1567	1565	446
25°	1457	1440	1447	1434	1432	670
35°	1259	1246	1250	1236	1234	786
45°	1023	1016	1016	1006	1006	788
55°	759	756	748	744	743	674
65°	448	440	430	427	428	447
75°	204	204	201	200	198	221
85°	47	52	52	52	52	56
90°	0	0	0	0	0	3
95°	28	110	492	170	105	32
105°	112	171	737	1303	1238	119
115°	209	253	559	1185	1391	206
125°	295	327	534	886	1059	264
135°	361	391	527	748	846	278
145°	426	447	532	648	706	266
155°	486	497	544	585	609	225
165°	537	539	551	563	571	151
175°	562	559	557	554	550	53
180°	558	558	558	558	558	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1639.3	1639.3	1639.3	1639.3	1639.3
2.5°	1649.6	1636.2	1639.3	1636.9	1630.1
5°	1645.0	1629.6	1635.0	1629.2	1629.2
7.5°	1633.8	1617.0	1622.3	1616.6	1616.3
10°	1623.5	1606.6	1612.0	1606.2	1604.8
12.5°	1608.6	1591.7	1598.2	1591.3	1591.0
15°	1581.8	1566.4	1573.2	1567.4	1564.6
17.5°	1551.7	1534.8	1543.0	1535.0	1533.8
20°	1528.7	1511.8	1520.1	1508.6	1508.6
22.5°	1501.1	1484.2	1493.6	1478.7	1478.7
25°	1456.8	1440.0	1446.8	1433.8	1432.4
27.5°	1404.3	1387.7	1394.8	1380.1	1379.8
30°	1366.3	1350.9	1359.1	1343.3	1341.9
32.5°	1324.9	1310.6	1316.6	1300.8	1299.4
35°	1258.6	1245.9	1250.0	1235.6	1234.1
37.5°	1188.7	1175.8	1180.4	1168.0	1167.5
40°	1139.3	1130.9	1132.1	1122.0	1119.2
42.5°	1093.3	1083.8	1085.0	1074.9	1074.4
45°	1022.9	1015.9	1015.8	1005.7	1005.7
47.5°	948.2	942.9	941.3	933.0	932.7
50°	896.5	892.3	890.8	883.6	882.1
52.5°	842.5	840.5	835.6	829.6	829.3
55°	758.6	755.8	748.5	744.2	742.8
57.5°	667.5	661.9	653.7	647.4	648.5
60°	602.0	596.4	584.7	581.9	581.9
62.5°	538.8	532.0	520.4	516.4	518.7
65°	448.3	439.8	429.6	426.7	428.1
67.5°	366.1	358.5	347.4	347.4	346.3
70°	313.2	309.0	300.3	300.3	300.3
72.5°	266.1	264.1	257.7	257.7	256.6
75°	204.0	204.0	201.1	199.7	198.3
77.5°	152.9	153.4	152.0	150.5	148.0
80°	120.7	123.5	122.1	120.7	119.2
82.5°	90.8	93.6	93.4	90.8	90.5
85°	47.4	51.6	51.7	51.7	51.7
87.5°	12.6	17.1	18.4	18.4	19.5
90°	0.0	0.0	0.0	0.0	0.0
92.5°	8.5	45.0	104.4	30.4	22.9
95°	27.6	109.5	492.3	170.4	105.0
97.5°	50.7	128.3	758.2	542.6	371.8
100°	66.8	139.5	816.0	826.5	636.6
102.5°	84.7	151.5	803.2	1057.9	892.1
105°	112.5	170.6	737.4	1302.6	1238.3
107.5°	140.7	192.8	660.6	1371.6	1428.8
110°	160.2	209.0	616.5	1345.2	1473.8

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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	178.9	225.2	586.8	1282.8	1466.2
115°	209.0	252.6	559.2	1184.6	1391.1
117.5°	235.6	276.4	542.8	1077.3	1296.0
120°	256.8	291.0	541.1	1016.0	1225.5
122.5°	273.8	308.0	536.9	962.1	1156.8
125°	295.0	327.1	533.7	885.7	1058.9
127.5°	318.1	348.2	532.0	840.0	982.8
130°	330.0	360.1	529.5	808.2	932.7
132.5°	342.7	372.0	529.5	783.3	897.9
135°	360.8	390.9	527.4	748.1	845.7
137.5°	377.7	407.0	527.1	718.4	802.6
140°	390.5	420.6	526.3	693.7	774.6
142.5°	404.9	430.0	528.8	673.9	746.6
145°	425.5	447.3	531.6	647.5	705.6
147.5°	443.1	464.3	536.3	620.8	671.0
150°	458.4	472.9	538.0	612.0	647.3
152.5°	470.3	485.6	539.7	600.0	632.8
155°	486.0	497.4	544.3	585.2	609.1
157.5°	505.5	512.3	545.4	578.5	595.5
160°	515.7	520.9	549.6	573.3	587.8
162.5°	521.6	527.6	550.5	569.0	580.2
165°	536.9	539.0	550.7	562.6	570.9
167.5°	547.3	545.4	555.6	561.0	564.3
170°	550.7	549.7	553.9	555.0	559.2
172.5°	558.3	554.8	556.4	553.3	556.6
175°	562.4	559.3	557.1	553.8	549.6
177.5°	564.1	559.1	556.4	553.0	553.9
180°	558.1	558.1	558.1	558.1	558.1

(END OF REPORT)