

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: P523752

Luminaire Tested: **SQ4-PP3-075U-100D-92765-1D-UNV-STD-W-4 (4000K)**

Issue Date: 5/24/2021

Test Information

Test Method: LM-79-2019
Report Number: P523752
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 (4000K)
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 4000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 7353.7 lumens
Efficiency: N/A
Efficacy: 111.3 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

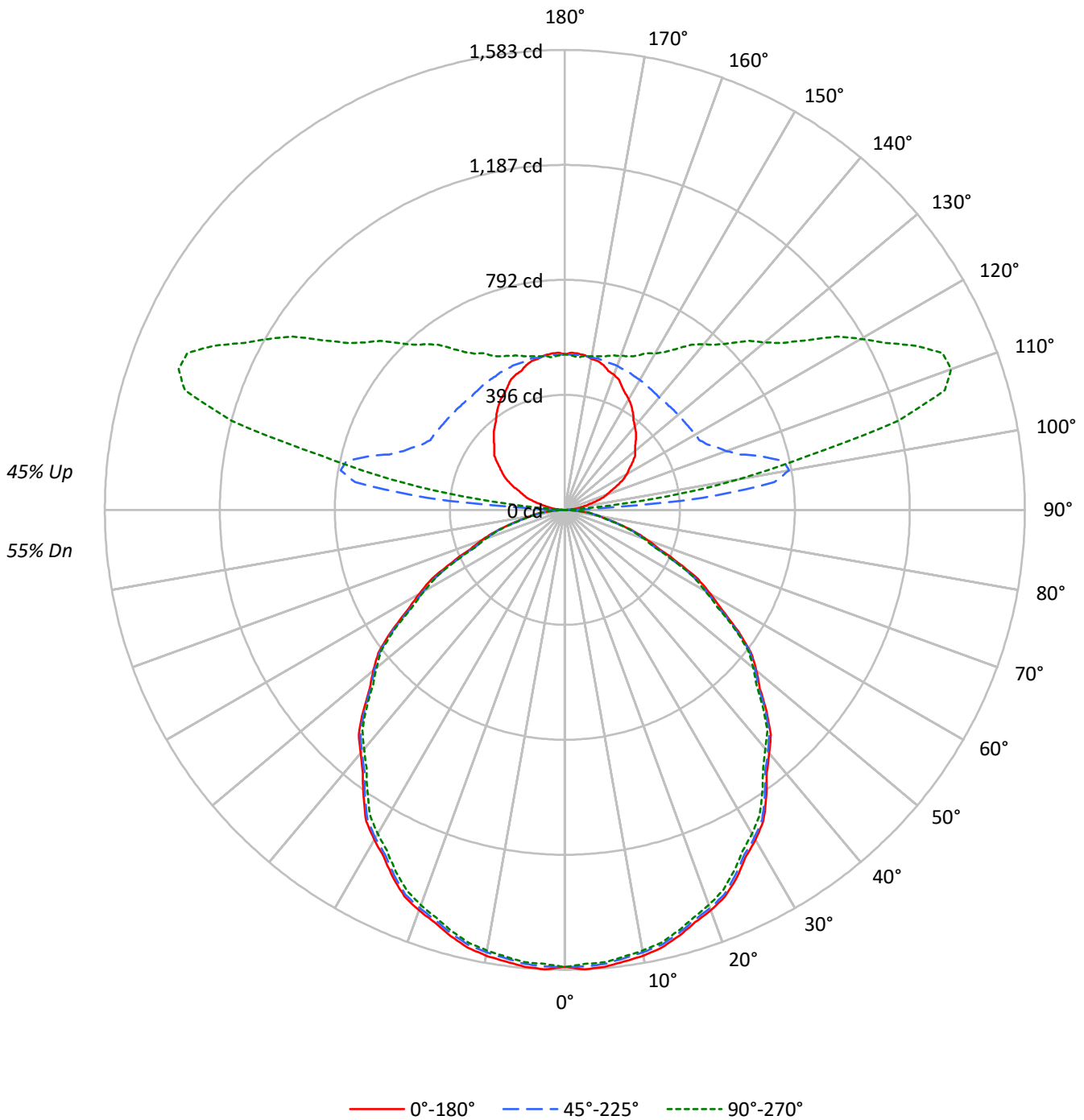
Input Watts (W): 66.1
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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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	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°	14515	14515	14515
5°	14621	14532	14481
10°	14596	14493	14428
15°	14500	14421	14342
20°	14403	14323	14214
25°	14233	14135	13994
30°	13969	13895	13720
35°	13604	13511	13340
40°	13169	13086	12936
45°	12809	12719	12594
50°	12350	12271	12152
55°	11710	11556	11466
60°	10660	10355	10304
65°	9392	9001	8970
70°	8109	7774	7774
75°	6980	6880	6784
80°	6153	6227	6078
85°	4817	5251	5251



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	148.8	2.0
10°-20°	424.8	5.8
20°-30°	636.2	8.7
30°-40°	746.3	10.1
40°-50°	748.6	10.2
50°-60°	638.6	8.7
60°-70°	416.5	5.7
70°-80°	209.0	2.8
80°-90°	57.8	0.8
90°-100°	244.1	3.3
100°-110°	694.5	9.4
110°-120°	665.4	9.0
120°-130°	526.6	7.2
130°-140°	422.7	5.7
140°-150°	330.9	4.5
150°-160°	242.1	3.3
160°-170°	150.0	2.0
170°-180°	50.9	0.7
0°-30°	1209.8	16.5
0°-40°	1956.0	26.6
0°-60°	3343.3	45.5
0°-90°	4026.5	54.8
90°-120°	1603.9	21.8
90°-150°	2884.1	39.2
90°-180°	3327.0	45.2
0°-180°	7353.7	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1573	1573	1573	1573	1573	
5°	1579	1564	1569	1564	1564	150
15°	1518	1503	1510	1504	1502	428
25°	1398	1382	1388	1376	1375	643
35°	1208	1196	1200	1186	1184	754
45°	982	975	975	965	965	756
55°	728	725	718	714	713	647
65°	430	422	412	410	411	429
75°	196	196	193	192	190	212
85°	46	50	50	50	50	53
90°	0	0	0	0	0	3
95°	26	105	472	164	101	30
105°	108	164	708	1250	1188	114
115°	201	242	537	1137	1335	198
125°	283	314	512	850	1016	253
135°	346	375	506	718	812	267
145°	408	429	510	621	677	255
155°	466	477	522	562	584	216
165°	515	517	528	540	548	145
175°	540	537	535	532	528	51
180°	536	536	536	536	536	

TEST NUMBER: P523752

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1573.2	1573.2	1573.2	1573.2	1573.2
2.5°	1583.1	1570.2	1573.2	1570.9	1564.4
5°	1578.7	1563.9	1569.1	1563.6	1563.6
7.5°	1568.0	1551.8	1556.9	1551.4	1551.2
10°	1558.0	1541.9	1547.0	1541.5	1540.1
12.5°	1543.7	1527.5	1533.8	1527.2	1526.9
15°	1518.1	1503.2	1509.8	1504.2	1501.5
17.5°	1489.1	1472.9	1480.8	1473.1	1472.0
20°	1467.0	1450.9	1458.8	1447.7	1447.7
22.5°	1440.6	1424.4	1433.4	1419.1	1419.1
25°	1398.1	1381.9	1388.5	1376.0	1374.7
27.5°	1347.6	1331.7	1338.5	1324.5	1324.2
30°	1311.2	1296.4	1304.3	1289.2	1287.8
32.5°	1271.5	1257.8	1263.5	1248.3	1247.0
35°	1207.8	1195.7	1199.6	1185.7	1184.4
37.5°	1140.8	1128.4	1132.8	1121.0	1120.4
40°	1093.4	1085.3	1086.5	1076.8	1074.1
42.5°	1049.3	1040.1	1041.3	1031.6	1031.1
45°	981.7	975.0	974.8	965.2	965.2
47.5°	910.0	904.9	903.4	895.4	895.1
50°	860.4	856.3	854.9	847.9	846.6
52.5°	808.5	806.6	801.9	796.1	795.8
55°	728.0	725.3	718.4	714.2	712.8
57.5°	640.6	635.2	627.4	621.3	622.4
60°	577.7	572.3	561.2	558.4	558.4
62.5°	517.1	510.6	499.4	495.6	497.7
65°	430.2	422.1	412.3	409.5	410.9
67.5°	351.3	344.0	333.4	333.4	332.3
70°	300.6	296.5	288.2	288.2	288.2
72.5°	255.4	253.5	247.4	247.3	246.3
75°	195.8	195.8	193.0	191.6	190.3
77.5°	146.7	147.2	145.9	144.4	142.0
80°	115.8	118.5	117.2	115.8	114.4
82.5°	87.1	89.8	89.6	87.1	86.9
85°	45.5	49.5	49.6	49.6	49.6
87.5°	12.1	16.4	17.6	17.7	18.8
90°	0.0	0.0	0.0	0.0	0.0
92.5°	8.1	43.2	100.2	29.2	22.0
95°	26.5	105.1	472.5	163.5	100.8
97.5°	48.7	123.2	727.7	520.7	356.8
100°	64.2	133.8	783.1	793.2	611.0
102.5°	81.3	145.4	770.8	1015.3	856.2
105°	107.9	163.7	707.7	1250.1	1188.4
107.5°	135.0	185.0	634.0	1316.3	1371.2
110°	153.8	200.6	591.6	1290.9	1414.4

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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	171.7	216.1	563.1	1231.0	1407.1
115°	200.6	242.4	536.6	1136.8	1335.0
117.5°	226.1	265.3	521.0	1033.9	1243.7
120°	246.4	279.3	519.3	975.0	1176.1
122.5°	262.7	295.6	515.3	923.4	1110.1
125°	283.1	314.0	512.2	850.0	1016.3
127.5°	305.3	334.2	510.6	806.1	943.1
130°	316.7	345.6	508.1	775.6	895.1
132.5°	328.9	357.0	508.1	751.8	861.7
135°	346.2	375.1	506.1	718.0	811.6
137.5°	362.5	390.6	505.9	689.4	770.2
140°	374.7	403.6	505.1	665.7	743.4
142.5°	388.6	412.7	507.5	646.8	716.5
145°	408.3	429.2	510.2	621.4	677.2
147.5°	425.2	445.6	514.6	595.8	644.0
150°	439.9	453.8	516.3	587.3	621.2
152.5°	451.3	466.0	517.9	575.8	607.3
155°	466.4	477.3	522.4	561.6	584.5
157.5°	485.1	491.7	523.4	555.1	571.5
160°	494.9	499.9	527.5	550.2	564.1
162.5°	500.6	506.4	528.3	546.1	556.8
165°	515.3	517.2	528.5	539.9	547.8
167.5°	525.2	523.4	533.2	538.3	541.5
170°	528.5	527.5	531.5	532.7	536.6
172.5°	535.8	532.4	534.0	531.0	534.2
175°	539.7	536.7	534.6	531.5	527.5
177.5°	541.3	536.5	534.0	530.8	531.5
180°	535.6	535.6	535.6	535.6	535.6

(END OF REPORT)