

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: P563449

Luminaire Tested: **SQ4-PP3-075U-125D-840-1D-UNV-STD-W-12**

Issue Date: 7/30/2021

Test Information

Test Method: LM-79-2019
Report Number: P563449
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1910-536-22, G2-2103-172-1)
Test Lab: INNOVATION CENTER
Issue Date: 7/30/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: CORELITE
Catalog Number: SQ4-PP3-075U-125D-840-1D-UNV-STD-W-12
Description: CORELITE SQ4 SUSPENDED LED LUMINAIRE WITH PERCEIVE PRISM CONTINUOUS LENS.
DOWNLIGHT 1250 LUMENS PER FOOT
UPLIGHT 750 LUMENS PER FOOT
Light Source: 4000K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 23837.2 lumens
Efficiency: N/A
Efficacy: 122.4 lumens/watt
Spacing Criteria (0/90/45): 1.24 / 1.22 / 1.33
Luminous Opening: Rectangular (W 0.29' x L: 12' x H: 0')
CIE Type: Semi-Direct

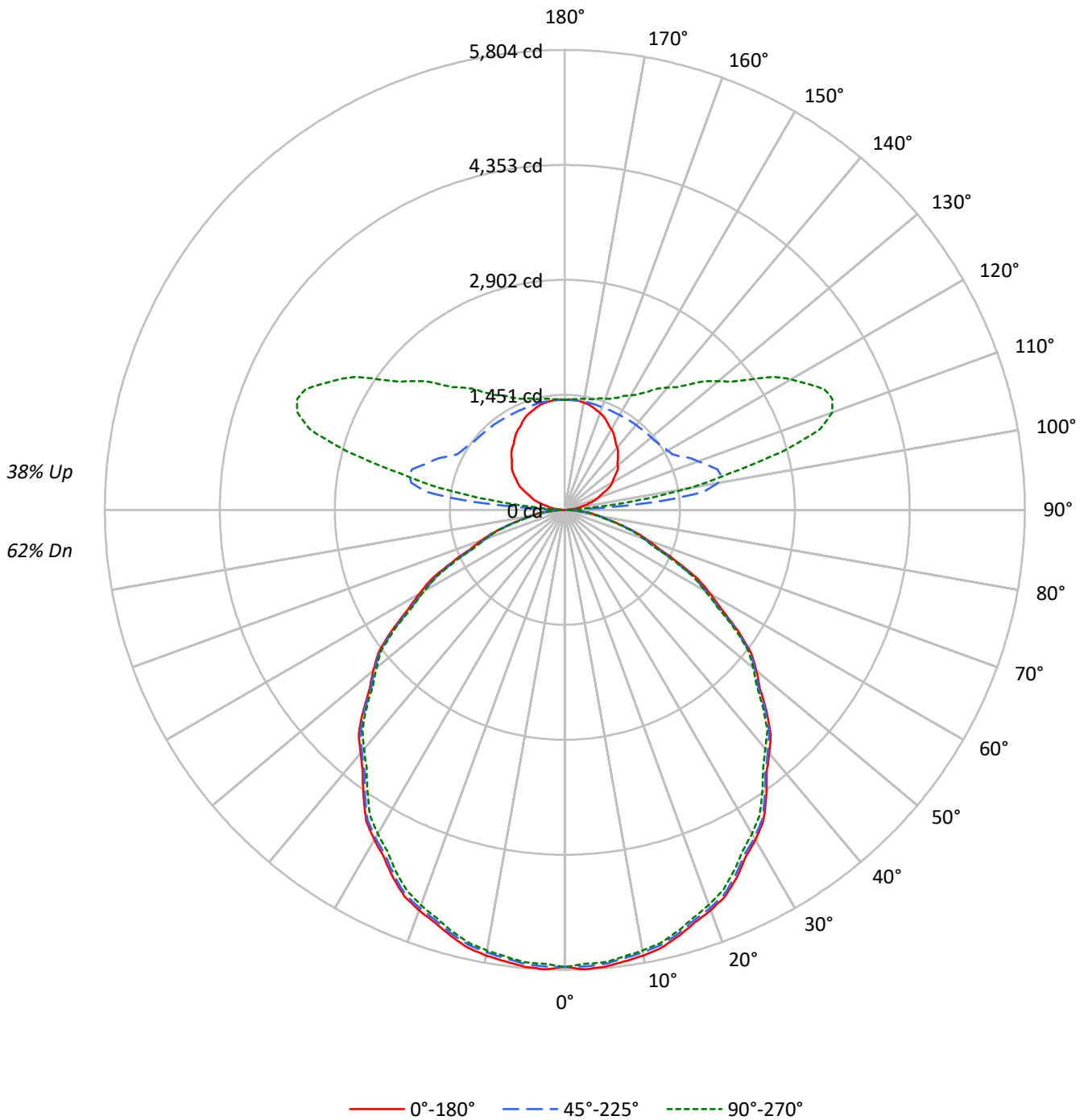
Input Watts (W): 194.8
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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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	110	110	110	110	103	103	103	103	90	90	90	78	78	78	67	67	67	62
1	101	96	93	89	94	90	87	84	79	77	75	69	67	66	60	58	57	53
2	92	84	78	73	86	79	74	69	70	66	62	61	58	55	53	51	49	45
3	84	74	67	61	78	70	63	58	62	57	52	54	50	47	47	44	42	38
4	77	66	58	52	72	62	55	50	55	49	45	48	44	40	42	39	36	33
5	71	59	51	45	66	56	48	43	49	43	39	43	39	35	38	34	31	28
6	65	53	45	39	61	50	43	37	44	38	34	39	34	31	34	31	28	25
7	60	48	40	34	56	45	38	33	40	34	30	36	31	27	31	28	25	22
8	56	44	36	30	52	41	34	29	37	31	27	33	28	24	29	25	22	20
9	52	40	32	27	49	38	31	26	34	28	24	30	25	22	27	23	20	18
10	49	37	29	24	46	35	28	23	31	26	22	28	23	20	25	21	18	16

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	17738	17738	17738
5°	17868	17759	17696
10°	17838	17712	17633
15°	17720	17623	17527
20°	17602	17503	17371
25°	17393	17273	17101
30°	17071	16981	16766
35°	16625	16511	16302
40°	16093	15992	15809
45°	15653	15543	15389
50°	15092	14995	14850
55°	14311	14121	14013
60°	13027	12654	12592
65°	11477	10998	10962
70°	9909	9500	9500
75°	8529	8409	8289
80°	7520	7610	7431
85°	5886	6422	6422



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	545.4	2.3
10°-20°	1557.3	6.5
20°-30°	2332.6	9.8
30°-40°	2736.0	11.5
40°-50°	2744.5	11.5
50°-60°	2341.3	9.8
60°-70°	1526.9	6.4
70°-80°	766.1	3.2
80°-90°	215.6	0.9
90°-100°	656.8	2.8
100°-110°	1807.0	7.6
110°-120°	1865.1	7.8
120°-130°	1494.3	6.3
130°-140°	1173.7	4.9
140°-150°	899.4	3.8
150°-160°	646.7	2.7
160°-170°	395.4	1.7
170°-180°	133.3	0.6
0°-30°	4435.2	18.6
0°-40°	7171.2	30.1
0°-60°	12257.0	51.4
0°-90°	14765.6	61.9
90°-120°	4328.8	18.2
90°-150°	7896.3	33.1
90°-180°	9072.0	38.1
0°-180°	23837.2	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	5768	5768	5768	5768	5768	
5°	5788	5734	5752	5732	5732	550
15°	5566	5511	5535	5515	5505	1570
25°	5126	5066	5090	5045	5040	2357
35°	4428	4384	4398	4347	4342	2766
45°	3599	3574	3574	3538	3538	2771
55°	2669	2659	2634	2618	2613	2372
65°	1577	1548	1511	1501	1506	1574
75°	718	718	708	702	698	779
85°	167	182	182	182	182	196
90°	3	12	21	27	27	13
95°	98	358	1161	497	317	103
105°	323	497	1991	3032	2830	340
115°	572	696	1597	3180	3609	564
125°	788	898	1449	2451	2871	703
135°	951	1055	1407	1982	2243	734
145°	1099	1174	1387	1689	1819	689
155°	1244	1285	1378	1518	1561	572
165°	1345	1362	1384	1440	1449	379
175°	1392	1395	1387	1404	1401	132
180°	1392	1392	1392	1392	1392	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	5767.7	5767.7	5767.7	5767.7	5767.7
2.5°	5804.0	5756.6	5767.7	5759.0	5735.3
5°	5787.9	5733.5	5752.5	5732.3	5732.3
7.5°	5748.4	5689.1	5708.0	5687.8	5686.8
10°	5712.0	5652.7	5671.6	5651.3	5646.3
12.5°	5659.5	5600.2	5623.1	5598.8	5597.8
15°	5565.5	5511.1	5535.1	5514.7	5504.8
17.5°	5459.3	5400.0	5429.0	5400.6	5396.6
20°	5378.4	5319.1	5348.1	5307.7	5307.7
22.5°	5281.4	5222.1	5255.1	5202.5	5202.5
25°	5125.7	5066.4	5090.3	5044.7	5039.7
27.5°	4940.7	4882.3	4907.3	4855.7	4854.7
30°	4807.2	4752.8	4781.9	4726.2	4721.3
32.5°	4661.6	4611.2	4632.3	4576.6	4571.7
35°	4428.1	4383.6	4397.8	4347.1	4342.2
37.5°	4182.4	4137.0	4153.1	4109.6	4107.6
40°	4008.5	3978.9	3983.3	3947.7	3937.8
42.5°	3846.8	3813.2	3817.5	3782.0	3780.1
45°	3599.1	3574.4	3573.8	3538.4	3538.4
47.5°	3336.2	3317.5	3312.0	3282.6	3281.6
50°	3154.3	3139.4	3134.0	3108.7	3103.7
52.5°	2964.2	2957.3	2939.9	2918.7	2917.7
55°	2669.0	2659.1	2633.6	2618.3	2613.4
57.5°	2348.5	2328.7	2300.0	2277.8	2281.8
60°	2118.0	2098.2	2057.3	2047.2	2047.2
62.5°	1895.6	1871.9	1830.9	1816.9	1824.8
65°	1577.1	1547.5	1511.4	1501.4	1506.4
67.5°	1288.0	1261.3	1222.3	1222.2	1218.2
70°	1102.0	1087.1	1056.5	1056.5	1056.5
72.5°	936.2	929.2	906.9	906.8	902.8
75°	717.8	717.8	707.7	702.5	697.6
77.5°	537.8	539.8	534.8	529.6	520.7
80°	424.6	434.5	429.7	424.5	419.6
82.5°	319.5	329.4	328.6	319.4	318.5
85°	166.8	181.6	182.0	182.0	182.0
87.5°	45.1	62.6	68.9	70.1	74.1
90°	3.0	11.7	20.7	26.7	26.7
92.5°	40.9	174.7	302.8	116.3	95.4
95°	97.8	358.5	1161.4	496.6	317.0
97.5°	159.4	397.5	1772.4	1365.6	963.5
100°	204.4	421.7	1964.3	1982.7	1617.7
102.5°	247.1	450.5	2014.1	2459.8	2124.9
105°	322.9	496.8	1991.0	3032.3	2829.5
107.5°	395.2	554.0	1877.8	3312.6	3372.9
110°	447.4	592.2	1792.5	3382.3	3590.9



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	494.8	635.0	1707.2	3337.4	3654.9
115°	571.8	696.4	1597.0	3180.0	3608.7
117.5°	645.3	760.0	1527.0	2959.0	3444.0
120°	690.3	800.4	1496.2	2793.5	3294.6
122.5°	730.6	840.7	1474.9	2648.3	3124.0
125°	788.1	898.2	1448.8	2450.9	2871.0
127.5°	842.6	947.5	1431.6	2286.2	2654.7
130°	871.1	978.3	1422.2	2188.3	2524.3
132.5°	904.3	1011.4	1415.0	2102.2	2405.8
135°	951.1	1055.4	1407.3	1982.1	2242.8
137.5°	994.9	1091.7	1400.8	1885.1	2100.0
140°	1028.1	1117.9	1398.4	1820.6	2014.7
142.5°	1056.5	1139.4	1393.7	1763.1	1929.4
145°	1099.2	1174.5	1386.6	1688.8	1819.2
147.5°	1144.8	1209.7	1383.0	1623.0	1727.3
150°	1173.3	1231.2	1380.7	1586.9	1668.1
152.5°	1199.3	1252.7	1378.3	1555.8	1623.0
155°	1244.4	1284.9	1377.7	1517.9	1561.4
157.5°	1277.0	1310.0	1377.7	1486.8	1517.0
160°	1300.7	1326.7	1377.7	1470.1	1493.3
162.5°	1319.6	1341.1	1380.1	1455.8	1474.3
165°	1345.1	1362.5	1383.6	1440.1	1448.8
167.5°	1362.9	1376.2	1386.6	1426.9	1429.3
170°	1374.7	1383.4	1386.6	1422.2	1422.2
172.5°	1384.2	1388.3	1386.6	1415.0	1412.7
175°	1392.5	1395.4	1386.6	1404.3	1401.4
177.5°	1394.9	1394.9	1385.4	1399.5	1394.9
180°	1392.5	1392.5	1392.5	1392.5	1392.5

(END OF REPORT)