

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: P564551

Luminaire Tested: **SQ4-PW1-025U-075D-835-1D-UNV-STD-W-6**

Issue Date: 7/30/2021

Test Information

Test Method: LM-79-2019
Report Number: P564551
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1910-536-32, G2-2106-289-3)
Test Lab: INNOVATION CENTER
Issue Date: 7/30/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: CORELITE
Catalog Number: SQ4-PW1-025U-075D-835-1D-UNV-STD-W-6
Description: CORELITE SQ4 SUSPENDED LED LUMINAIRE WITH PERCEIVE WAVES CONTINUOUS LENS.
DOWNLIGHT 750 LUMENS PER FOOT
UPLIGHT 250 LUMENS PER FOOT
Light Source: 3500K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

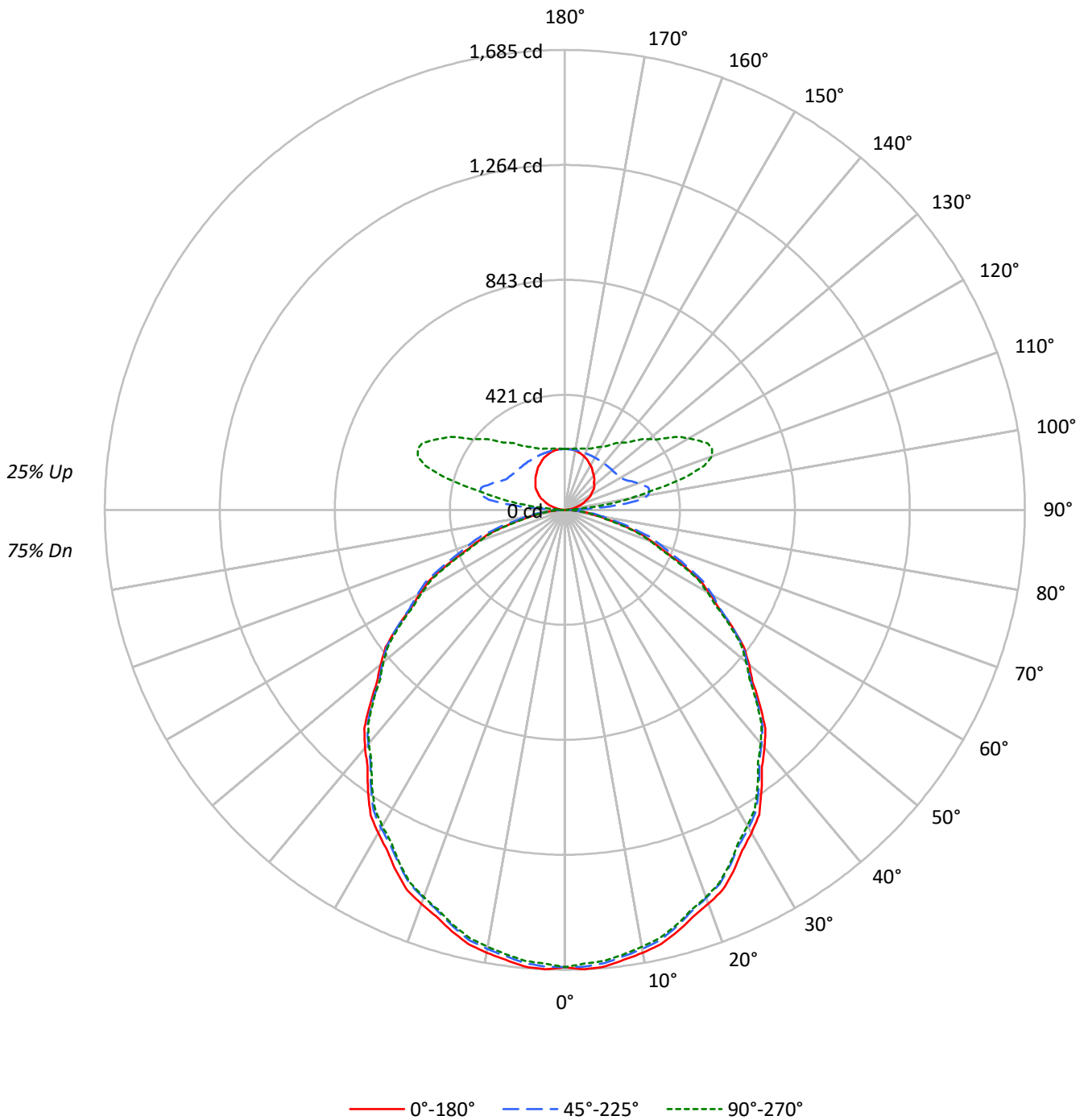
Lumens per Lamp: N/A
Luminaire Lumens: 5712.6 lumens
Efficiency: N/A
Efficacy: 117.5 lumens/watt
Spacing Criteria (0/90/45): 1.22 / 1.19 / 1.31
Luminous Opening: Rectangular (W 0.29' x L: 6' x H: 0')
CIE Type: Semi-Direct

Input Watts (W): 48.6
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	113	113	113	113	107	107	107	107	97	97	97	87	87	87	79	79	79	75
1	103	99	95	91	98	94	91	88	86	83	80	77	75	73	70	68	67	63
2	94	87	80	75	89	83	77	72	75	71	67	68	65	62	62	59	57	53
3	86	76	69	63	82	73	66	60	66	61	56	60	56	52	55	51	48	45
4	79	68	59	53	75	65	57	51	59	53	48	54	49	45	49	45	42	39
5	73	61	52	46	69	58	50	44	53	47	42	48	43	39	44	40	36	34
6	67	54	46	40	64	52	44	39	48	41	37	44	38	34	40	36	32	30
7	62	49	41	35	59	47	40	34	44	37	32	40	35	30	37	32	29	26
8	58	45	37	31	55	43	36	31	40	33	29	37	31	27	34	29	26	23
9	54	41	33	28	51	40	32	27	37	30	26	34	28	25	31	27	23	21
10	50	38	30	25	48	37	30	25	34	28	24	31	26	22	29	24	21	19

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	10305	10305	10305
5°	10372	10289	10244
10°	10289	10205	10150
15°	10180	10067	10029
20°	10058	9903	9884
25°	9917	9737	9707
30°	9708	9561	9498
35°	9432	9299	9244
40°	9138	8996	8960
45°	8782	8667	8628
50°	8419	8348	8291
55°	8026	8026	7899
60°	7536	7681	7408
65°	6896	7239	6724
70°	6079	6663	5920
75°	5193	5963	5052
80°	4027	5019	4077
85°	2604	3853	3437



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	157.8	2.8
10°-20°	445.4	7.8
20°-30°	660.7	11.6
30°-40°	773.1	13.5
40°-50°	769.6	13.5
50°-60°	664.6	11.6
60°-70°	478.4	8.4
70°-80°	250.9	4.4
80°-90°	63.4	1.1
90°-100°	108.9	1.9
100°-110°	286.4	5.0
110°-120°	297.0	5.2
120°-130°	238.2	4.2
130°-140°	186.9	3.3
140°-150°	143.5	2.5
150°-160°	103.3	1.8
160°-170°	63.2	1.1
170°-180°	21.4	0.4
0°-30°	1263.9	22.1
0°-40°	2036.9	35.7
0°-60°	3471.1	60.8
0°-90°	4263.8	74.6
90°-120°	692.3	12.1
90°-150°	1261.0	22.1
90°-180°	1449.0	25.4
0°-180°	5712.6	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1675	1675	1675	1675	1675	
5°	1680	1661	1666	1662	1659	159
15°	1599	1578	1581	1578	1575	451
25°	1461	1437	1435	1426	1430	672
35°	1256	1239	1238	1227	1231	785
45°	1010	1001	996	993	992	779
55°	748	747	748	738	737	668
65°	474	488	497	478	462	470
75°	218	239	251	234	213	234
85°	37	48	55	52	49	49
90°	1	4	12	6	6	3
95°	14	56	188	97	66	16
105°	52	78	317	481	448	55
115°	92	111	254	506	578	91
125°	128	143	231	390	460	113
135°	152	167	224	315	357	118
145°	176	188	221	268	290	110
155°	199	205	221	242	249	92
165°	215	218	221	229	232	61
175°	224	224	222	225	225	21
180°	224	224	224	224	224	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1675.4	1675.4	1675.4	1675.4	1675.4
2.5°	1684.8	1671.0	1675.4	1671.6	1663.6
5°	1679.8	1661.0	1666.5	1662.0	1659.1
7.5°	1662.7	1645.4	1649.4	1644.6	1642.9
10°	1647.3	1630.0	1634.0	1628.1	1625.2
12.5°	1629.6	1611.1	1615.1	1609.2	1607.5
15°	1598.6	1578.4	1580.9	1577.9	1575.0
17.5°	1562.6	1542.1	1542.5	1537.8	1537.2
20°	1536.6	1515.0	1513.0	1507.2	1510.0
22.5°	1508.3	1485.5	1483.5	1475.3	1479.3
25°	1461.3	1436.8	1434.8	1426.0	1430.3
27.5°	1407.0	1382.8	1382.8	1370.5	1375.1
30°	1366.9	1343.8	1346.2	1331.6	1337.3
32.5°	1324.4	1303.6	1304.9	1290.2	1296.0
35°	1256.2	1238.8	1238.4	1226.7	1231.1
37.5°	1186.5	1171.2	1168.8	1162.0	1163.2
40°	1138.1	1125.1	1120.4	1115.9	1115.9
42.5°	1087.3	1075.5	1070.8	1067.5	1066.3
45°	1009.6	1001.0	996.4	993.4	991.9
47.5°	932.9	924.8	920.8	918.7	917.2
50°	879.8	874.0	872.4	867.9	866.5
52.5°	826.6	823.1	821.6	816.0	814.5
55°	748.4	746.9	748.4	738.0	736.6
57.5°	666.9	669.2	674.0	660.0	656.6
60°	612.6	618.4	624.4	608.0	602.2
62.5°	557.1	566.3	574.8	556.0	547.9
65°	473.8	488.3	497.4	477.9	462.0
67.5°	393.5	411.4	422.5	401.4	383.5
70°	338.0	358.2	370.5	349.4	329.2
72.5°	289.6	312.1	322.1	302.1	281.9
75°	218.5	238.7	250.9	234.2	212.6
77.5°	155.0	174.0	184.2	169.6	151.7
80°	113.7	133.9	141.7	129.6	115.1
82.5°	80.6	97.3	102.7	95.4	85.6
85°	36.9	48.4	54.6	51.6	48.7
87.5°	9.7	18.4	24.7	23.6	24.8
90°	1.4	4.2	11.5	5.7	5.7
92.5°	6.0	29.0	64.2	28.4	18.3
95°	14.3	56.4	187.7	96.7	65.9
97.5°	24.9	61.9	280.9	223.3	164.5
100°	33.0	66.6	309.5	313.7	243.6
102.5°	39.8	71.2	317.5	390.7	330.7
105°	51.6	78.2	316.7	480.7	448.5
107.5°	63.6	88.3	298.6	527.5	535.3
110°	71.6	94.1	283.7	539.5	573.2

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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	79.7	101.0	270.0	531.9	583.5
115°	91.7	111.3	253.6	506.0	577.5
117.5°	103.5	121.4	242.5	470.1	549.4
120°	110.3	127.1	237.9	446.0	523.0
122.5°	117.2	134.0	234.4	421.9	497.8
125°	127.5	142.9	230.7	389.9	460.0
127.5°	135.8	151.5	227.5	364.2	423.3
130°	140.4	157.2	226.4	348.0	402.7
132.5°	145.0	161.8	225.3	334.1	383.2
135°	151.9	167.3	223.5	314.8	356.8
137.5°	159.1	174.2	223.3	300.3	334.7
140°	164.8	178.8	222.1	288.8	321.0
142.5°	169.4	182.3	222.1	280.6	308.4
145°	176.3	187.5	220.7	268.4	289.5
147.5°	183.1	194.1	220.7	258.3	275.7
150°	187.7	197.5	220.7	252.5	266.5
152.5°	192.3	199.9	220.7	247.9	258.5
155°	199.2	204.8	220.7	242.3	249.3
157.5°	204.3	209.7	220.7	237.4	242.5
160°	207.8	212.0	220.7	235.1	237.9
162.5°	211.2	214.3	220.7	232.8	235.6
165°	214.9	217.7	220.7	229.3	232.1
167.5°	218.4	219.8	222.1	227.9	229.0
170°	220.7	222.1	222.1	227.8	227.8
172.5°	221.8	222.1	222.1	226.7	225.5
175°	223.5	223.5	222.1	225.0	225.0
177.5°	223.5	223.5	222.4	224.7	223.5
180°	223.5	223.5	223.5	223.5	223.5

(END OF REPORT)