

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: P563425

Luminaire Tested: **SQ4-PP3-075U-100D-840-1D-UNV-STD-W-12**

Issue Date: 7/30/2021

Test Information

Test Method: LM-79-2019
Report Number: P563425
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-100D-840-1D-UNV-STD-W-12
Description: CORELITE SQ4 SUSPENDED LED LUMINAIRE WITH PERCEIVE PRISM CONTINUOUS LENS.
DOWNLIGHT 1000 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: 20643.0 lumens
Efficiency: N/A
Efficacy: 127.3 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: General Diffuse

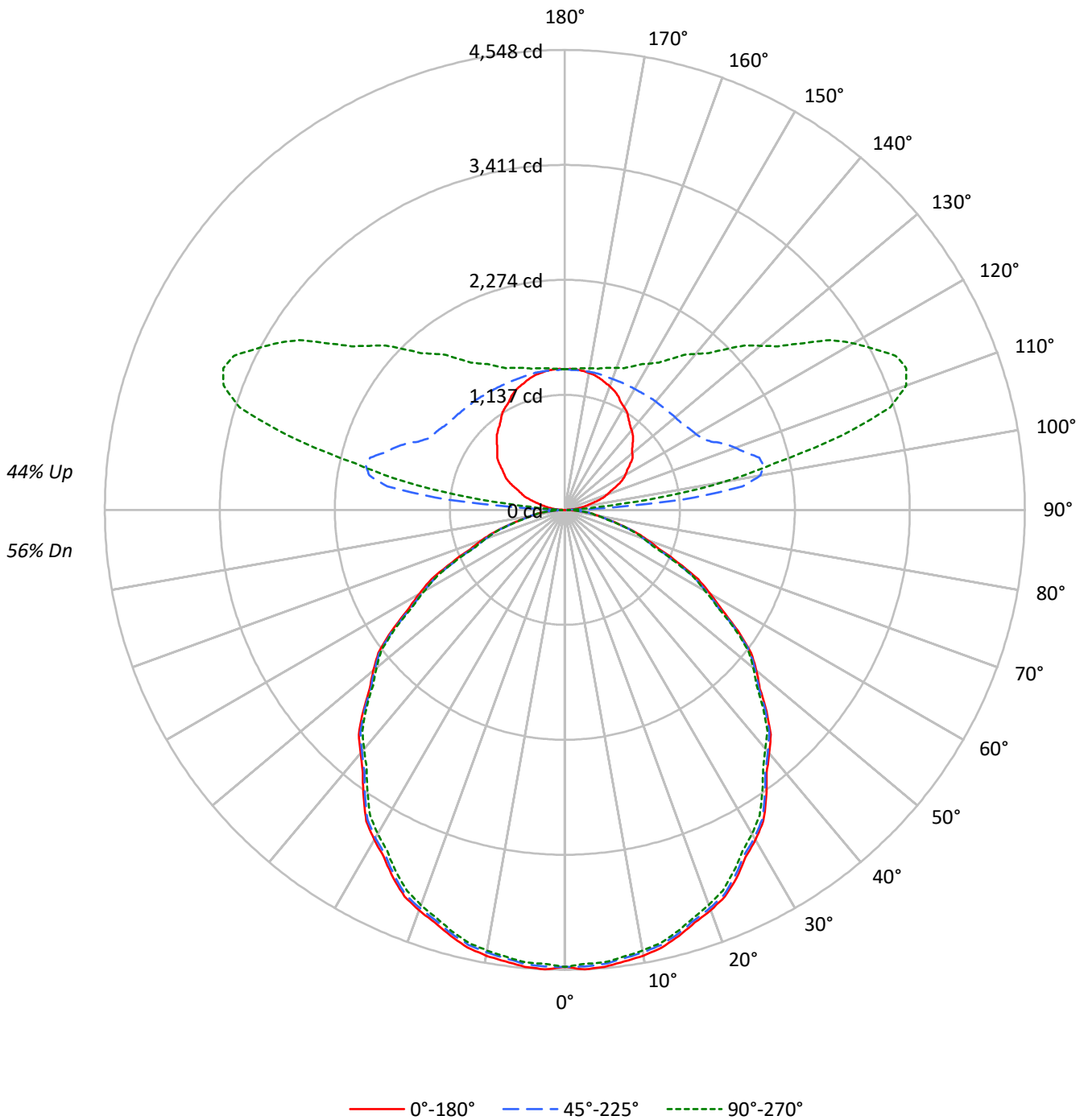
Input Watts (W): 162.2
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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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	109	109	109	109	101	101	101	101	87	87	87	74	74	74	62	62	62	56
1	99	95	91	88	92	89	85	82	76	74	72	65	63	62	55	54	53	48
2	91	83	77	72	84	78	72	68	67	63	60	58	55	52	49	46	45	40
3	83	73	66	60	77	69	62	57	59	54	50	51	47	44	43	40	38	34
4	76	65	57	51	70	61	54	48	53	47	43	46	41	38	39	36	33	30
5	70	58	50	44	65	54	47	42	47	42	37	41	36	33	35	31	29	26
6	64	52	44	38	60	49	42	36	43	37	33	37	32	29	32	28	25	23
7	59	47	39	33	55	44	37	32	39	33	29	34	29	26	29	25	23	20
8	55	43	35	30	51	40	33	28	35	30	26	31	26	23	27	23	20	18
9	51	39	32	26	48	37	30	25	32	27	23	28	24	21	24	21	18	16
10	48	36	29	24	45	34	27	23	30	24	21	26	22	19	23	19	17	15

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	13900	13900	13900
5°	14002	13916	13867
10°	13978	13879	13817
15°	13886	13810	13734
20°	13793	13716	13612
25°	13630	13535	13401
30°	13377	13307	13138
35°	13027	12938	12775
40°	12611	12531	12388
45°	12266	12180	12060
50°	11826	11750	11636
55°	11214	11065	10980
60°	10208	9916	9868
65°	8994	8619	8590
70°	7764	7444	7444
75°	6684	6590	6495
80°	5892	5963	5823
85°	4612	5032	5032



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	427.4	2.1
10°-20°	1220.3	5.9
20°-30°	1827.8	8.9
30°-40°	2144.0	10.4
40°-50°	2150.7	10.4
50°-60°	1834.7	8.9
60°-70°	1196.5	5.8
70°-80°	600.3	2.9
80°-90°	169.7	0.8
90°-100°	656.8	3.2
100°-110°	1807.0	8.8
110°-120°	1865.1	9.0
120°-130°	1494.3	7.2
130°-140°	1173.7	5.7
140°-150°	899.4	4.4
150°-160°	646.7	3.1
160°-170°	395.4	1.9
170°-180°	133.3	0.6
0°-30°	3475.5	16.8
0°-40°	5619.5	27.2
0°-60°	9604.8	46.5
0°-90°	11571.3	56.1
90°-120°	4328.8	21.0
90°-150°	7896.3	38.3
90°-180°	9072.0	43.9
0°-180°	20643.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	4520	4520	4520	4520	4520	
5°	4536	4493	4508	4492	4492	431
15°	4361	4319	4337	4321	4314	1230
25°	4017	3970	3989	3953	3949	1847
35°	3470	3435	3446	3406	3403	2168
45°	2820	2801	2800	2773	2773	2172
55°	2092	2084	2064	2052	2048	1859
65°	1236	1213	1184	1176	1180	1233
75°	562	562	555	550	547	610
85°	131	142	143	143	143	154
90°	3	12	21	27	27	11
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°	4519.6	4519.6	4519.6	4519.6	4519.6
2.5°	4548.1	4511.0	4519.6	4512.9	4494.3
5°	4535.5	4492.9	4507.7	4491.9	4491.9
7.5°	4504.6	4458.1	4472.9	4457.0	4456.3
10°	4476.1	4429.6	4444.4	4428.4	4424.6
12.5°	4434.9	4388.4	4406.3	4387.3	4386.5
15°	4361.2	4318.6	4337.4	4321.4	4313.7
17.5°	4278.0	4231.5	4254.2	4232.0	4228.9
20°	4214.6	4168.1	4190.9	4159.2	4159.2
22.5°	4138.6	4092.1	4118.0	4076.8	4076.8
25°	4016.6	3970.1	3988.8	3953.1	3949.2
27.5°	3871.6	3825.9	3845.4	3805.0	3804.3
30°	3767.0	3724.4	3747.2	3703.6	3699.7
32.5°	3652.9	3613.4	3630.0	3586.3	3582.4
35°	3469.9	3435.1	3446.2	3406.5	3402.6
37.5°	3277.4	3241.8	3254.4	3220.3	3218.8
40°	3141.2	3117.9	3121.4	3093.5	3085.7
42.5°	3014.4	2988.1	2991.4	2963.7	2962.1
45°	2820.3	2800.9	2800.5	2772.8	2772.8
47.5°	2614.3	2599.6	2595.3	2572.3	2571.6
50°	2471.7	2460.1	2455.9	2436.0	2432.1
52.5°	2322.8	2317.4	2303.8	2287.1	2286.4
55°	2091.5	2083.7	2063.7	2051.8	2047.9
57.5°	1840.3	1824.8	1802.3	1784.9	1788.0
60°	1659.7	1644.2	1612.2	1604.3	1604.3
62.5°	1485.4	1466.8	1434.7	1423.8	1430.0
65°	1235.9	1212.6	1184.4	1176.5	1180.4
67.5°	1009.3	988.4	957.8	957.7	954.6
70°	863.5	851.9	827.9	827.9	827.9
72.5°	733.6	728.2	710.6	710.6	707.5
75°	562.5	562.5	554.6	550.5	546.6
77.5°	421.5	423.0	419.1	415.0	408.0
80°	332.7	340.5	336.7	332.6	328.8
82.5°	250.3	258.1	257.5	250.3	249.6
85°	130.7	142.3	142.6	142.6	142.6
87.5°	35.5	49.6	54.9	56.1	59.2
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)