

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: P563315

Luminaire Tested: **SQ4-PP3-050U-075D-935-1D-UNV-STD-W-6**

Issue Date: 7/30/2021

Test Information

Test Method: LM-79-2019
Report Number: P563315
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1910-536-21, 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-PP3-050U-075D-935-1D-UNV-STD-W-6
Description: CORELITE SQ4 SUSPENDED LED LUMINAIRE WITH PERCEIVE PRISM CONTINUOUS LENS.
DOWNLIGHT 750 LUMENS PER FOOT
UPLIGHT 500 LUMENS PER FOOT
Light Source: 3500K CCT, 90 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

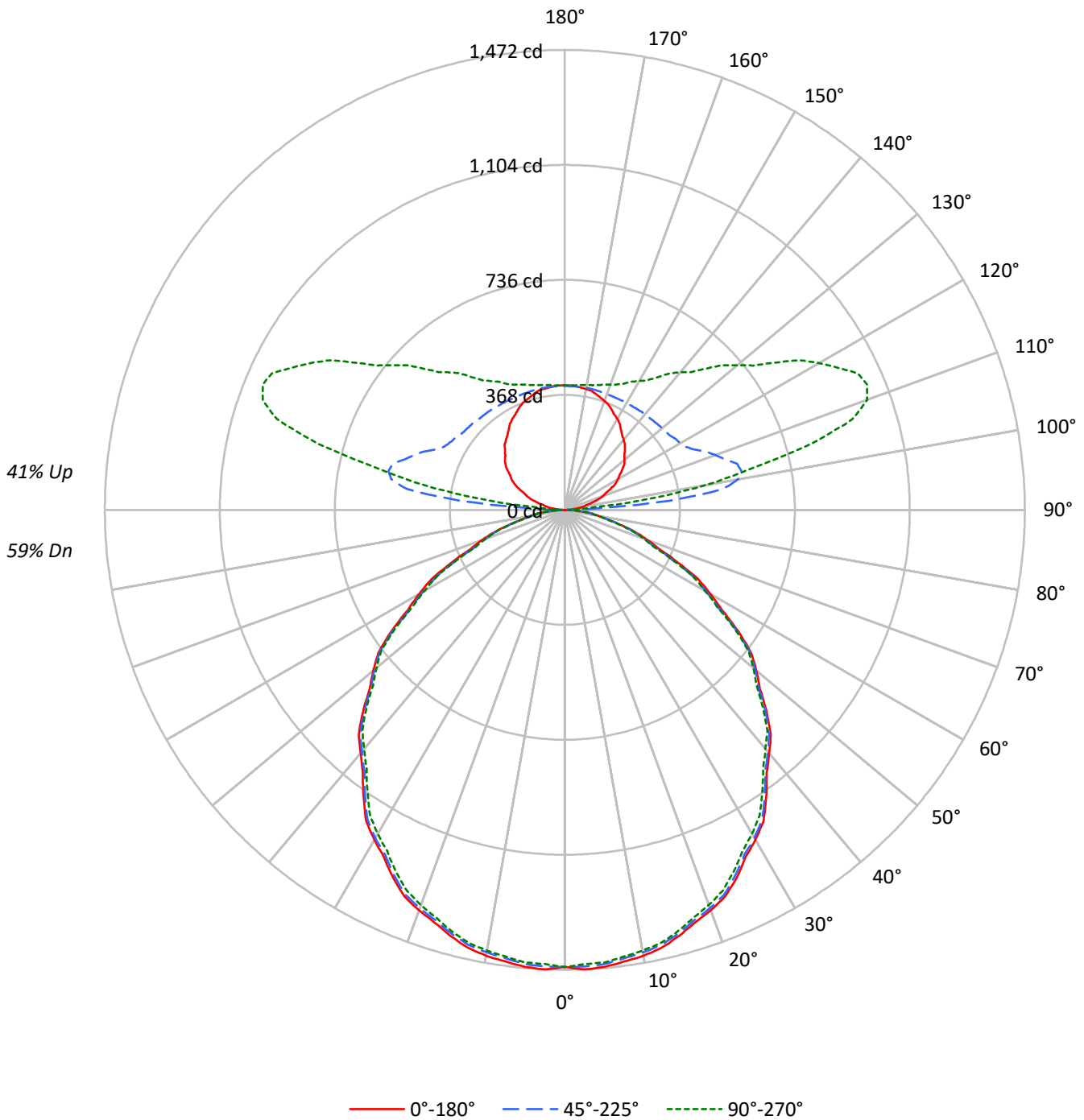
Lumens per Lamp: N/A
Luminaire Lumens: 6342.3 lumens
Efficiency: N/A
Efficacy: 108.4 lumens/watt
Spacing Criteria (0/90/45): 1.24 / 1.22 / 1.33
Luminous Opening: Rectangular (W 0.29' x L: 6' x H: 0')
CIE Type: General Diffuse

Input Watts (W): 58.5
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									
RC	80									50									30									10									0
RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10	50	30	10	0																
RCR																																					
0	109	109	109	109	102	102	102	102	88	88	88	76	76	76	64	64	64	59																			
1	100	96	92	88	93	90	86	83	78	75	73	67	65	64	57	56	55	50																			
2	91	84	78	73	85	79	73	69	69	64	61	59	56	54	51	49	47	42																			
3	83	74	67	61	78	69	63	58	61	56	51	53	49	46	45	42	40	36																			
4	76	66	58	52	71	62	54	49	54	48	44	47	43	39	40	37	34	31																			
5	70	58	50	44	65	55	48	42	48	43	38	42	38	34	36	33	30	27																			
6	65	53	44	38	60	49	42	37	44	38	33	38	33	30	33	29	27	24																			
7	60	47	39	34	56	45	37	32	40	34	29	35	30	26	30	26	24	21																			
8	56	43	35	30	52	41	34	29	36	30	26	32	27	24	28	24	21	19																			
9	52	39	32	27	48	37	30	26	33	27	23	29	25	21	26	22	19	17																			
10	48	36	29	24	45	34	28	23	31	25	21	27	22	19	24	20	17	15																			

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	8999	8999	8999
5°	9065	9010	8978
10°	9050	8986	8946
15°	8990	8941	8892
20°	8930	8880	8813
25°	8824	8763	8676
30°	8661	8615	8506
35°	8435	8377	8271
40°	8164	8113	8020
45°	7942	7886	7808
50°	7656	7607	7534
55°	7260	7164	7109
60°	6610	6420	6388
65°	5823	5580	5561
70°	5026	4820	4820
75°	4328	4266	4206
80°	3815	3861	3769
85°	2985	3260	3260



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	138.3	2.2
10°-20°	395.0	6.2
20°-30°	591.7	9.3
30°-40°	694.0	10.9
40°-50°	696.2	11.0
50°-60°	593.9	9.4
60°-70°	387.3	6.1
70°-80°	194.3	3.1
80°-90°	55.3	0.9
90°-100°	190.9	3.0
100°-110°	518.5	8.2
110°-120°	533.1	8.4
120°-130°	426.2	6.7
130°-140°	334.9	5.3
140°-150°	256.8	4.0
150°-160°	184.7	2.9
160°-170°	112.9	1.8
170°-180°	38.1	0.6
0°-30°	1125.1	17.7
0°-40°	1819.1	28.7
0°-60°	3109.2	49.0
0°-90°	3746.2	59.1
90°-120°	1242.5	19.6
90°-150°	2260.4	35.6
90°-180°	2596.0	40.9
0°-180°	6342.3	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1463	1463	1463	1463	1463	
5°	1468	1454	1459	1454	1454	139
15°	1412	1398	1404	1399	1396	398
25°	1300	1285	1291	1280	1278	598
35°	1123	1112	1116	1103	1102	702
45°	913	907	907	898	898	703
55°	677	674	668	664	663	602
65°	400	392	383	381	382	399
75°	182	182	180	178	177	198
85°	42	46	46	46	46	50
90°	1	5	9	12	12	4
95°	28	104	332	145	97	30
105°	92	143	570	868	817	98
115°	164	199	456	908	1034	161
125°	225	256	413	696	821	201
135°	271	301	402	567	639	210
145°	313	336	396	482	518	197
155°	354	367	394	432	445	163
165°	384	389	395	412	413	108
175°	398	399	396	401	400	38
180°	398	398	398	398	398	

TEST NUMBER: P563315

CATALOG NUMBER: SQ4-PP3-050U-075D-935-1D-UNV-STD-W-6

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1463.1	1463.1	1463.1	1463.1	1463.1
2.5°	1472.3	1460.3	1463.1	1460.9	1454.9
5°	1468.2	1454.4	1459.2	1454.1	1454.1
7.5°	1458.2	1443.1	1447.9	1442.8	1442.5
10°	1449.0	1433.9	1438.7	1433.5	1432.3
12.5°	1435.6	1420.6	1426.4	1420.2	1420.0
15°	1411.8	1398.0	1404.1	1398.9	1396.4
17.5°	1384.8	1369.8	1377.2	1369.9	1368.9
20°	1364.3	1349.3	1356.6	1346.4	1346.4
22.5°	1339.7	1324.7	1333.0	1319.7	1319.7
25°	1300.2	1285.2	1291.2	1279.7	1278.4
27.5°	1253.3	1238.5	1244.8	1231.7	1231.5
30°	1219.4	1205.6	1213.0	1198.9	1197.6
32.5°	1182.5	1169.7	1175.1	1160.9	1159.7
35°	1123.3	1112.0	1115.6	1102.7	1101.5
37.5°	1060.9	1049.4	1053.5	1042.5	1042.0
40°	1016.8	1009.3	1010.4	1001.4	998.9
42.5°	975.8	967.3	968.4	959.4	958.9
45°	913.0	906.7	906.6	897.6	897.6
47.5°	846.3	841.5	840.1	832.7	832.4
50°	800.1	796.4	795.0	788.6	787.3
52.5°	751.9	750.2	745.8	740.4	740.1
55°	677.0	674.5	668.1	664.2	662.9
57.5°	595.7	590.7	583.4	577.8	578.8
60°	537.3	532.3	521.9	519.3	519.3
62.5°	480.8	474.8	464.4	460.9	462.9
65°	400.1	392.5	383.4	380.9	382.1
67.5°	326.7	320.0	310.1	310.0	309.0
70°	279.5	275.8	268.0	268.0	268.0
72.5°	237.5	235.7	230.0	230.0	229.0
75°	182.1	182.1	179.5	178.2	177.0
77.5°	136.4	136.9	135.7	134.3	132.1
80°	107.7	110.2	109.0	107.7	106.4
82.5°	81.0	83.5	83.3	81.0	80.8
85°	42.3	46.1	46.2	46.2	46.2
87.5°	11.5	16.3	18.2	18.7	19.7
90°	1.3	5.0	8.9	11.5	11.5
92.5°	11.5	52.3	90.8	39.0	33.0
95°	28.1	104.4	332.4	144.7	97.2
97.5°	46.5	115.3	509.6	396.5	278.5
100°	58.8	122.6	563.8	571.5	461.5
102.5°	71.1	129.8	578.1	706.9	609.8
105°	92.1	143.3	570.2	868.2	817.0
107.5°	113.8	159.0	537.2	951.5	965.8
110°	129.1	170.4	512.7	967.9	1029.2



TEST NUMBER: P563315

CATALOG NUMBER: SQ4-PP3-050U-075D-935-1D-UNV-STD-W-6

CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	142.4	181.7	488.1	954.3	1046.6
115°	163.6	198.7	456.4	908.1	1034.3
117.5°	183.6	217.1	436.2	842.4	984.7
120°	196.9	229.4	427.0	798.4	939.7
122.5°	208.1	240.6	420.9	754.3	890.6
125°	225.0	256.3	413.0	695.8	820.8
127.5°	240.1	271.1	408.6	651.4	758.7
130°	249.3	279.3	406.6	623.5	719.8
132.5°	258.5	288.5	404.5	599.8	685.0
135°	271.0	301.0	401.5	566.7	639.3
137.5°	284.6	311.8	399.9	537.6	598.6
140°	292.8	319.0	398.9	519.0	574.0
142.5°	301.0	325.2	397.9	504.5	550.5
145°	313.2	335.7	396.3	481.5	517.8
147.5°	327.0	346.3	395.1	463.5	492.0
150°	336.2	352.5	395.1	453.1	475.6
152.5°	343.4	357.7	394.0	443.8	462.3
155°	354.1	366.6	393.8	432.4	444.9
157.5°	364.6	374.4	393.8	424.7	434.2
160°	370.8	379.5	393.8	419.5	427.0
162.5°	376.9	383.7	394.8	415.4	420.9
165°	383.6	388.6	395.1	411.7	413.0
167.5°	390.5	393.0	396.3	407.4	408.4
170°	392.5	395.0	396.3	405.3	405.3
172.5°	394.5	396.0	396.3	403.2	403.2
175°	397.6	398.9	396.3	401.4	400.2
177.5°	398.6	398.6	395.6	399.6	397.6
180°	397.6	397.6	397.6	397.6	397.6

(END OF REPORT)