

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: P563770

Luminaire Tested: **SQ4-PP3-150U-050D-935-1D-UNV-STD-W-4**

Issue Date: 7/30/2021

Test Information

Test Method: LM-79-2019
Report Number: P563770
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1910-536-25, 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-PP3-150U-050D-935-1D-UNV-STD-W-4
Description: CORELITE SQ4 SUSPENDED LED LUMINAIRE WITH PERCEIVE PRISM CONTINUOUS LENS.
DOWNLIGHT 500 LUMENS PER FOOT
UPLIGHT 1500 LUMENS PER FOOT
Light Source: 3500K CCT, 90 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

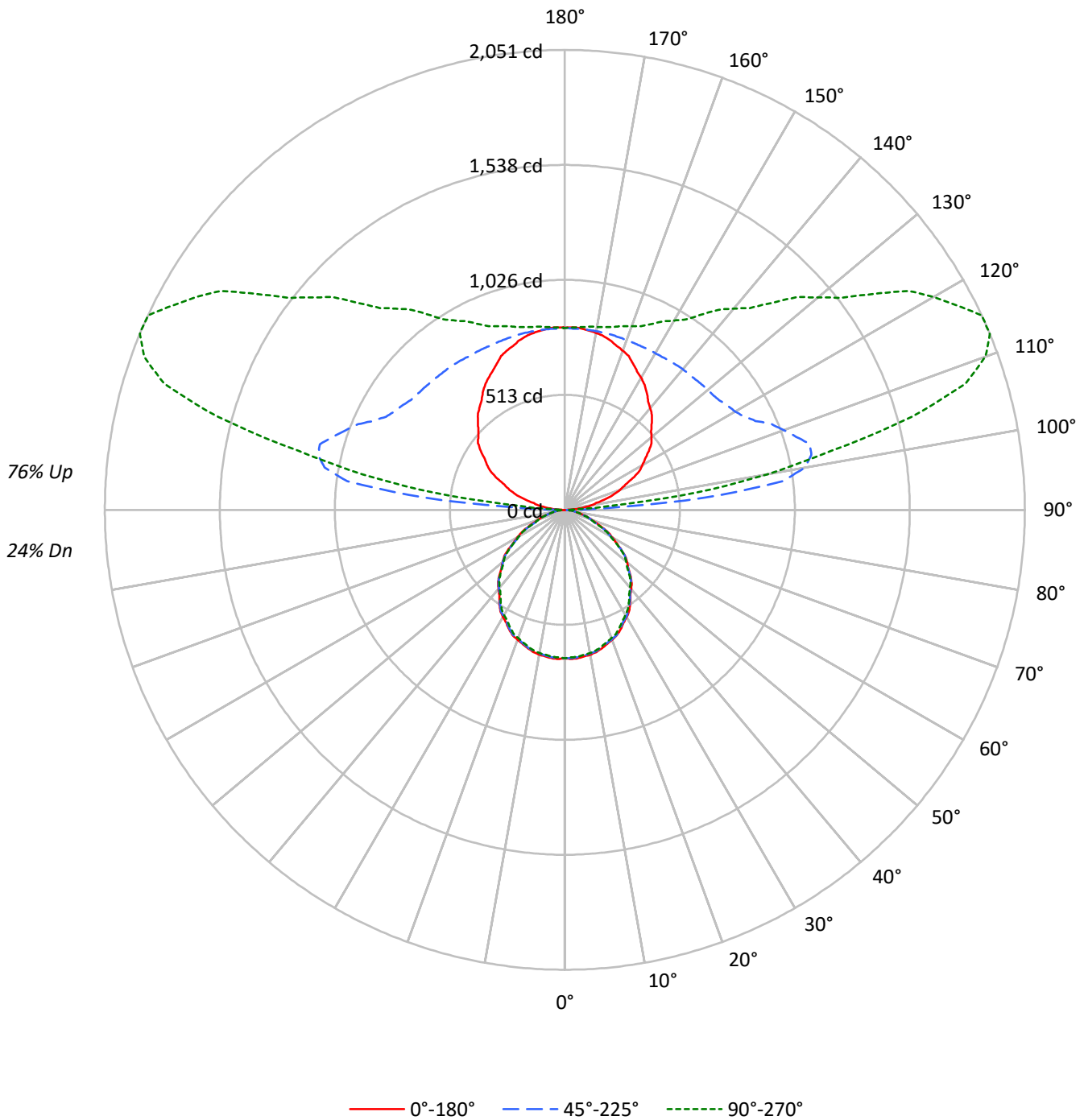
Lumens per Lamp: N/A
Luminaire Lumens: 6929.6 lumens
Efficiency: N/A
Efficacy: 124.4 lumens/watt
Spacing Criteria (0/90/45): 1.24 / 1.22 / 1.33
Luminous Opening: Rectangular (W 0.29' x L: 4' x H: 0')
CIE Type: Semi-Indirect

Input Watts (W): 55.7
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	101	101	101	101	90	90	90	90	69	69	69	50	50	50	33	33	33	24
1	92	88	84	81	82	78	75	73	61	59	57	44	43	42	29	28	28	21
2	84	77	71	66	74	69	64	60	53	50	47	39	37	35	26	24	23	18
3	77	68	61	55	68	60	55	50	47	43	40	34	32	30	23	21	20	15
4	70	60	52	46	62	53	47	42	42	37	34	31	28	25	20	19	17	13
5	64	53	45	40	57	48	41	36	37	32	29	27	24	22	18	16	15	11
6	59	47	40	34	52	43	36	31	33	29	25	25	21	19	17	15	13	10
7	54	43	35	30	48	38	32	27	30	25	22	22	19	17	15	13	12	9
8	50	39	31	26	45	35	28	24	27	23	19	20	17	15	14	12	10	8
9	47	35	28	23	42	32	25	21	25	20	17	19	15	13	13	11	9	7
10	43	32	25	20	39	29	23	19	23	18	15	17	14	12	12	10	8	6

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	6106	6106	6106
5°	6151	6113	6091
10°	6140	6097	6070
15°	6100	6066	6033
20°	6059	6025	5979
25°	5987	5946	5887
30°	5876	5846	5771
35°	5723	5683	5611
40°	5539	5504	5441
45°	5389	5351	5297
50°	5195	5161	5111
55°	4925	4861	4824
60°	4484	4357	4334
65°	3951	3786	3772
70°	3410	3269	3269
75°	2937	2895	2852
80°	2588	2619	2556
85°	2022	2212	2212



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	62.6	0.9
10°-20°	178.7	2.6
20°-30°	267.6	3.9
30°-40°	313.9	4.5
40°-50°	314.9	4.5
50°-60°	268.6	3.9
60°-70°	175.2	2.5
70°-80°	87.9	1.3
80°-90°	26.0	0.4
90°-100°	377.3	5.4
100°-110°	1020.1	14.7
110°-120°	1072.5	15.5
120°-130°	871.2	12.6
130°-140°	683.3	9.9
140°-150°	524.5	7.6
150°-160°	377.2	5.4
160°-170°	230.4	3.3
170°-180°	77.7	1.1
0°-30°	508.9	7.3
0°-40°	822.8	11.9
0°-60°	1406.3	20.3
0°-90°	1695.5	24.5
90°-120°	2469.9	35.6
90°-150°	4548.9	65.6
90°-180°	5234.0	75.5
0°-180°	6929.6	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	662	662	662	662	662	
5°	664	658	660	658	658	63
15°	639	632	635	633	632	180
25°	588	581	584	579	578	270
35°	508	503	505	499	498	317
45°	413	410	410	406	406	318
55°	306	305	302	300	300	272
65°	181	178	173	172	173	181
75°	82	82	81	81	80	89
85°	19	21	21	21	21	23
90°	2	5	11	12	11	5
95°	58	206	627	325	193	61
105°	190	293	1132	1669	1601	200
115°	334	408	938	1817	2051	330
125°	457	524	846	1428	1677	407
135°	548	613	823	1153	1305	423
145°	637	685	812	987	1062	399
155°	719	747	805	885	914	332
165°	783	791	808	840	844	221
175°	813	812	809	820	818	77
180°	812	812	812	812	812	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	661.8	661.8	661.8	661.8	661.8
2.5°	665.9	660.5	661.8	660.8	658.1
5°	664.1	657.9	660.0	657.7	657.7
7.5°	659.6	652.8	654.9	652.6	652.5
10°	655.4	648.6	650.8	648.4	647.9
12.5°	649.4	642.6	645.2	642.4	642.3
15°	638.6	632.3	635.1	632.7	631.6
17.5°	626.4	619.6	622.9	619.7	619.2
20°	617.1	610.3	613.6	609.0	609.0
22.5°	606.0	599.2	603.0	596.9	596.9
25°	588.1	581.3	584.1	578.8	578.3
27.5°	566.9	560.2	563.1	557.1	557.0
30°	551.6	545.3	548.7	542.3	541.7
32.5°	534.9	529.1	531.5	525.1	524.5
35°	508.1	503.0	504.6	498.8	498.2
37.5°	479.9	474.7	476.5	471.5	471.3
40°	459.9	456.5	457.0	452.9	451.8
42.5°	441.4	437.5	438.0	433.9	433.7
45°	413.0	410.1	410.1	406.0	406.0
47.5°	382.8	380.6	380.0	376.6	376.5
50°	361.9	360.2	359.6	356.7	356.1
52.5°	340.1	339.3	337.3	334.9	334.8
55°	306.2	305.1	302.2	300.4	299.9
57.5°	269.5	267.2	263.9	261.4	261.8
60°	243.0	240.7	236.1	234.9	234.9
62.5°	217.5	214.8	210.1	208.5	209.4
65°	181.0	177.6	173.4	172.3	172.8
67.5°	147.8	144.7	140.2	140.2	139.8
70°	126.4	124.7	121.2	121.2	121.2
72.5°	107.4	106.6	104.1	104.0	103.6
75°	82.4	82.4	81.2	80.6	80.0
77.5°	61.7	61.9	61.4	60.8	59.7
80°	48.7	49.9	49.3	48.7	48.1
82.5°	36.7	37.8	37.7	36.7	36.5
85°	19.1	20.8	20.9	20.9	20.9
87.5°	5.5	8.0	9.7	9.9	10.2
90°	1.7	5.2	11.4	12.2	11.4
92.5°	24.8	90.4	178.4	77.5	56.1
95°	58.5	205.5	627.4	324.7	193.1
97.5°	94.0	235.7	978.0	809.4	594.4
100°	120.6	247.9	1087.1	1133.7	916.7
102.5°	145.1	264.9	1125.6	1379.7	1217.3
105°	189.6	293.0	1131.7	1669.3	1600.9
107.5°	230.9	325.2	1082.2	1850.0	1872.7
110°	263.0	348.5	1038.2	1898.5	1995.1



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	291.7	371.7	997.6	1888.8	2051.0
115°	333.8	408.2	938.5	1816.9	2051.0
117.5°	375.1	444.8	899.6	1706.9	1972.3
120°	400.2	468.6	876.5	1628.1	1898.9
122.5°	424.0	491.0	862.5	1543.5	1816.4
125°	457.0	523.7	845.9	1427.5	1677.0
127.5°	487.4	552.9	836.1	1332.8	1552.2
130°	504.2	571.7	831.9	1274.2	1472.5
132.5°	521.7	588.5	827.7	1221.5	1404.0
135°	547.9	612.9	823.2	1152.6	1304.7
137.5°	574.3	635.7	819.3	1096.7	1220.6
140°	592.5	649.7	817.9	1060.8	1171.0
142.5°	610.0	663.8	815.2	1028.3	1124.9
145°	637.1	684.9	811.8	986.6	1061.8
147.5°	661.7	704.1	808.0	948.8	1006.5
150°	679.9	717.5	806.6	928.2	974.4
152.5°	696.7	729.5	805.9	909.2	947.1
155°	719.2	747.4	804.8	885.0	914.1
157.5°	742.6	762.3	805.0	868.2	887.3
160°	755.9	772.1	805.7	857.6	871.3
162.5°	766.4	779.9	806.4	849.1	859.4
165°	783.0	790.7	808.3	839.9	844.2
167.5°	794.4	799.7	808.5	832.0	834.0
170°	801.3	803.9	809.2	828.4	828.4
172.5°	806.9	807.4	809.2	824.2	823.5
175°	812.7	811.8	809.2	819.7	817.9
177.5°	814.6	812.6	809.0	816.0	813.9
180°	811.8	811.8	811.8	811.8	811.8

(END OF REPORT)