

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: P564466

Luminaire Tested: **SQ4-PR1-150U-075D-935-1D-UNV-STD-W-4**

Issue Date: 7/30/2021

Test Information

Test Method: LM-79-2019
Report Number: P564466
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1910-536-25, G2-2106-289-4)
Test Lab: INNOVATION CENTER
Issue Date: 7/30/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: CORELITE
Catalog Number: SQ4-PR1-150U-075D-935-1D-UNV-STD-W-4
Description: CORELITE SQ4 SUSPENDED LED LUMINAIRE WITH PERCEIVE RIPPLE CONTINUOUS LENS.
DOWNLIGHT 750 LUMENS PER FOOT
UPLIGHT 1500 LUMENS PER FOOT
Light Source: 3500K CCT, 90 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

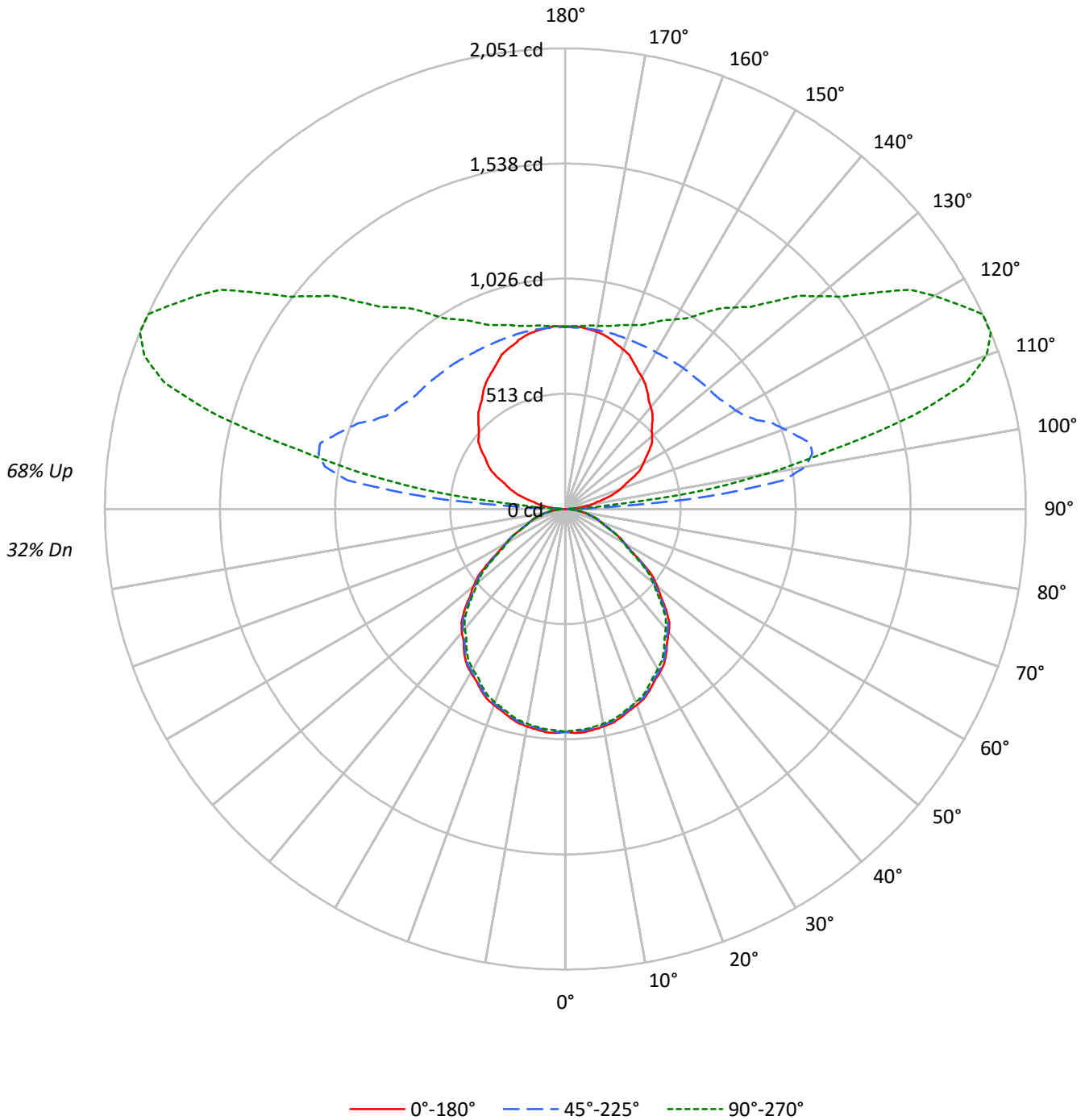
Lumens per Lamp: N/A
Luminaire Lumens: 7717.5 lumens
Efficiency: N/A
Efficacy: 121.5 lumens/watt
Spacing Criteria (0/90/45): 1.26 / 1.24 / 1.35
Luminous Opening: Rectangular (W 0.29' x L: 4' x H: 0')
CIE Type: Semi-Indirect

Input Watts (W): 63.5
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				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	103	103	103	103	93	93	93	93	73	73	73	56	56	56	40	40	40	32
1	94	90	86	83	84	81	78	75	65	62	60	49	48	47	35	35	34	27
2	86	79	73	68	77	71	66	62	57	53	50	44	41	39	31	30	29	23
3	78	69	62	57	70	63	57	52	50	46	42	39	36	33	28	26	25	20
4	72	61	54	48	64	55	49	44	45	40	36	34	31	29	25	23	21	17
5	66	55	47	41	59	49	43	38	40	35	31	31	28	25	23	20	19	15
6	60	49	41	35	54	44	38	33	36	31	27	28	24	22	20	18	16	13
7	56	44	36	31	50	40	33	29	32	27	24	25	22	19	19	16	15	12
8	52	40	32	27	46	36	30	25	30	25	21	23	20	17	17	15	13	11
9	48	36	29	24	43	33	27	22	27	22	19	21	18	15	16	14	12	10
10	45	33	26	22	40	30	24	20	25	20	17	20	16	14	15	12	11	9

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	9159	9159	9159
5°	9241	9170	9123
10°	9212	9148	9100
15°	9172	9114	9065
20°	9125	9066	8999
25°	9061	9000	8896
30°	8964	8900	8772
35°	8831	8754	8629
40°	8629	8537	8383
45°	8278	8133	7966
50°	7658	7474	7327
55°	6685	6532	6396
60°	5634	5586	5475
65°	4873	4890	4853
70°	4475	4497	4497
75°	4299	4299	4328
80°	4043	4091	4043
85°	3260	3620	3620



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	93.9	1.2
10°-20°	268.6	3.5
20°-30°	405.1	5.2
30°-40°	482.7	6.3
40°-50°	475.9	6.2
50°-60°	363.7	4.7
60°-70°	225.1	2.9
70°-80°	127.8	1.7
80°-90°	40.6	0.5
90°-100°	377.3	4.9
100°-110°	1020.1	13.2
110°-120°	1072.5	13.9
120°-130°	871.2	11.3
130°-140°	683.3	8.9
140°-150°	524.5	6.8
150°-160°	377.2	4.9
160°-170°	230.4	3.0
170°-180°	77.7	1.0
0°-30°	767.6	9.9
0°-40°	1250.3	16.2
0°-60°	2089.9	27.1
0°-90°	2483.4	32.2
90°-120°	2469.9	32.0
90°-150°	4548.9	58.9
90°-180°	5234.0	67.8
0°-180°	7717.5	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	993	993	993	993	993	
5°	998	987	990	987	985	95
15°	960	950	954	951	949	271
25°	890	879	884	875	874	410
35°	784	775	777	767	766	489
45°	634	626	623	612	610	486
55°	416	409	406	399	398	372
65°	223	222	224	222	222	226
75°	121	121	121	121	121	127
85°	31	32	34	34	34	36
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°	992.7	992.7	992.7	992.7	992.7
2.5°	998.9	990.2	992.7	990.5	985.9
5°	997.8	987.0	990.1	986.7	985.0
7.5°	990.1	979.4	982.6	979.2	978.2
10°	983.3	973.3	976.5	973.0	971.3
12.5°	975.8	965.1	968.9	964.8	963.1
15°	960.2	950.2	954.2	950.8	949.1
17.5°	943.1	932.4	936.4	932.5	930.3
20°	929.4	919.4	923.4	917.4	916.6
22.5°	914.4	904.4	908.4	900.4	900.2
25°	890.1	879.2	884.1	874.7	873.9
27.5°	861.2	851.2	855.2	845.6	844.6
30°	841.4	831.3	835.4	825.1	823.4
32.5°	818.8	809.4	812.8	802.5	801.5
35°	784.1	774.9	777.2	767.0	766.1
37.5°	744.6	736.2	737.6	726.3	725.4
40°	716.5	708.2	708.8	696.8	696.0
42.5°	685.7	677.4	676.7	664.7	663.9
45°	634.4	626.1	623.3	612.2	610.5
47.5°	576.0	567.6	562.4	553.4	552.2
50°	533.5	525.2	520.7	513.0	510.5
52.5°	487.7	479.4	475.6	468.5	466.0
55°	415.6	408.9	406.1	399.3	397.6
57.5°	347.0	342.5	341.7	335.0	334.3
60°	305.3	302.7	302.7	296.7	296.7
62.5°	269.7	267.8	269.2	265.2	264.6
65°	223.2	221.5	224.0	222.3	222.3
67.5°	186.4	186.4	187.9	187.3	187.3
70°	165.9	165.9	166.7	166.7	166.7
72.5°	147.4	146.7	148.9	148.9	148.3
75°	120.6	120.6	120.6	121.4	121.4
77.5°	93.9	94.1	94.7	94.6	93.9
80°	76.1	76.9	77.0	76.1	76.1
82.5°	58.3	59.1	59.2	59.0	58.3
85°	30.8	32.5	34.2	34.2	34.2
87.5°	9.2	12.6	16.0	16.1	15.3
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)