

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: P564754

Luminaire Tested: **SQ4-PW1-075U-075D-935-1D-UNV-STD-W-4**

Issue Date: 7/30/2021

Test Information

Test Method: LM-79-2019
Report Number: P564754
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1910-536-22, 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-PW1-075U-075D-935-1D-UNV-STD-W-4
Description: CORELITE SQ4 SUSPENDED LED LUMINAIRE WITH PERCEIVE WAVES CONTINUOUS LENS.
DOWNLIGHT 750 LUMENS PER FOOT
UPLIGHT 750 LUMENS PER FOOT
Light Source: 3500K CCT, 90 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

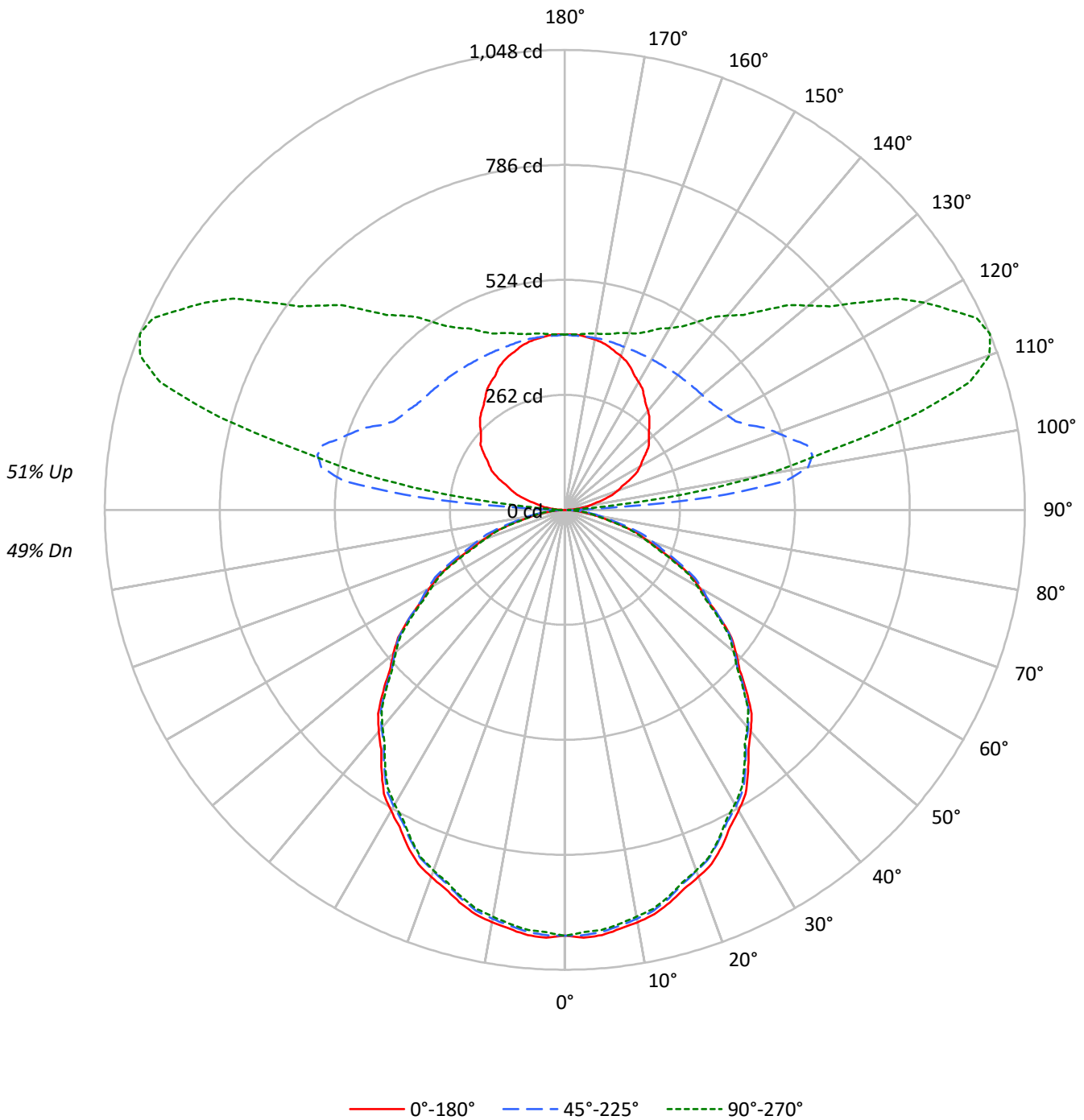
Lumens per Lamp: N/A
Luminaire Lumens: 5071.4 lumens
Efficiency: N/A
Efficacy: 119.3 lumens/watt
Spacing Criteria (0/90/45): 1.22 / 1.19 / 1.31
Luminous Opening: Rectangular (W 0.29' x L: 4' x H: 0')
CIE Type: General Diffuse

Input Watts (W): 42.5
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	107	107	107	107	98	98	98	98	83	83	83	68	68	68	55	55	55	49
1	98	93	89	86	90	86	83	80	73	70	68	60	59	57	49	48	47	41
2	89	82	75	70	82	75	70	66	64	60	56	53	50	48	43	41	39	35
3	81	72	64	59	74	66	60	55	56	51	48	47	43	40	38	36	34	29
4	74	64	56	50	68	59	52	47	50	45	41	42	38	35	34	31	29	25
5	68	57	49	43	63	52	45	40	45	39	35	37	33	30	31	28	25	22
6	63	51	43	37	58	47	40	35	40	35	30	34	30	26	28	25	22	19
7	58	46	38	32	53	43	36	30	37	31	27	31	26	23	25	22	20	17
8	54	42	34	29	50	39	32	27	33	28	24	28	24	21	23	20	18	15
9	50	38	30	25	46	35	29	24	31	25	21	26	22	19	22	18	16	14
10	47	35	28	23	43	33	26	22	28	23	19	24	20	17	20	17	15	13

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	8954	8954	8954
5°	9011	8940	8901
10°	8939	8867	8820
15°	8845	8747	8714
20°	8739	8605	8588
25°	8617	8461	8434
30°	8435	8308	8253
35°	8195	8080	8032
40°	7939	7817	7785
45°	7632	7531	7497
50°	7315	7253	7204
55°	6973	6973	6864
60°	6547	6674	6438
65°	5993	6292	5842
70°	5282	5789	5144
75°	4509	5183	4388
80°	3496	4362	3544
85°	2265	3345	2985



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	91.4	1.8
10°-20°	258.0	5.1
20°-30°	382.7	7.5
30°-40°	447.8	8.8
40°-50°	445.8	8.8
50°-60°	385.0	7.6
60°-70°	277.1	5.5
70°-80°	145.3	2.9
80°-90°	37.0	0.7
90°-100°	188.3	3.7
100°-110°	518.1	10.2
110°-120°	534.8	10.5
120°-130°	428.5	8.4
130°-140°	336.5	6.6
140°-150°	257.9	5.1
150°-160°	185.4	3.7
160°-170°	113.4	2.2
170°-180°	38.2	0.8
0°-30°	732.1	14.4
0°-40°	1179.9	23.3
0°-60°	2010.7	39.6
0°-90°	2470.2	48.7
90°-120°	1241.3	24.5
90°-150°	2264.2	44.6
90°-180°	2601.0	51.3
0°-180°	5071.4	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	970	970	970	970	970	
5°	973	962	965	963	961	92
15°	926	914	916	914	912	261
25°	846	832	831	826	828	389
35°	728	718	717	711	713	455
45°	585	580	577	575	575	451
55°	434	433	434	428	427	387
65°	274	283	288	277	268	272
75°	126	138	145	136	123	136
85°	21	28	32	30	28	28
90°	1	3	6	8	8	3
95°	28	103	333	142	91	30
105°	93	142	571	870	811	98
115°	164	200	458	912	1035	162
125°	226	258	415	703	823	202
135°	273	303	404	568	643	210
145°	315	337	398	484	522	198
155°	357	368	395	435	448	164
165°	386	391	397	413	415	109
175°	399	400	398	403	402	38
180°	399	399	399	399	399	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	970.5	970.5	970.5	970.5	970.5
2.5°	975.9	967.9	970.5	968.3	963.6
5°	973.0	962.2	965.3	962.7	961.1
7.5°	963.1	953.1	955.4	952.7	951.7
10°	954.2	944.2	946.5	943.1	941.4
12.5°	944.0	933.3	935.6	932.1	931.1
15°	926.0	914.3	915.8	914.0	912.3
17.5°	905.2	893.3	893.5	890.8	890.4
20°	890.1	877.6	876.4	873.0	874.7
22.5°	873.7	860.5	859.3	854.6	856.9
25°	846.5	832.3	831.1	826.0	828.5
27.5°	815.0	801.0	801.0	793.9	796.6
30°	791.8	778.4	779.8	771.3	774.7
32.5°	767.1	755.1	755.9	747.4	750.7
35°	727.6	717.6	717.4	710.6	713.1
37.5°	687.3	678.4	677.0	673.1	673.8
40°	659.2	651.7	649.0	646.4	646.4
42.5°	629.8	623.0	620.2	618.4	617.7
45°	584.9	579.8	577.2	575.4	574.6
47.5°	540.4	535.7	533.4	532.2	531.3
50°	509.6	506.3	505.3	502.7	501.9
52.5°	478.8	476.8	475.9	472.6	471.8
55°	433.5	432.7	433.5	427.5	426.7
57.5°	386.3	387.6	390.4	382.3	380.3
60°	354.8	358.2	361.7	352.2	348.9
62.5°	322.7	328.0	333.0	322.1	317.4
65°	274.5	282.8	288.2	276.8	267.6
67.5°	228.0	238.3	244.7	232.5	222.1
70°	195.8	207.5	214.6	202.4	190.7
72.5°	167.8	180.8	186.6	175.0	163.3
75°	126.5	138.3	145.4	135.7	123.1
77.5°	89.8	100.8	106.7	98.3	87.9
80°	65.8	77.5	82.1	75.1	66.7
82.5°	46.7	56.4	59.5	55.3	49.6
85°	21.4	28.1	31.6	29.9	28.2
87.5°	5.6	10.8	14.2	14.5	15.2
90°	0.8	3.3	5.9	7.6	7.6
92.5°	11.7	50.1	86.8	33.3	27.4
95°	28.0	102.8	333.0	142.4	90.9
97.5°	45.7	114.0	508.2	391.6	276.3
100°	58.6	120.9	563.3	568.5	463.9
102.5°	70.9	129.2	577.5	705.3	609.3
105°	92.6	142.4	570.9	869.5	811.3
107.5°	113.3	158.9	538.5	949.9	967.2
110°	128.3	169.8	514.0	969.9	1029.7



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	141.9	182.1	489.5	957.0	1048.0
115°	164.0	199.7	457.9	911.8	1034.8
117.5°	185.0	217.9	437.9	848.5	987.5
120°	198.0	229.5	429.0	801.0	944.7
122.5°	209.5	241.1	422.9	759.4	895.8
125°	226.0	257.6	415.4	702.8	823.2
127.5°	241.6	271.7	410.5	655.6	761.2
130°	249.8	280.5	407.8	627.5	723.8
132.5°	259.3	290.0	405.8	602.8	689.9
135°	272.7	302.6	403.5	568.4	643.1
137.5°	285.3	313.0	401.7	540.5	602.2
140°	294.8	320.6	401.0	522.1	577.7
142.5°	303.0	326.7	399.6	505.6	553.2
145°	315.2	336.8	397.6	484.3	521.6
147.5°	328.3	346.9	396.6	465.4	495.3
150°	336.4	353.0	395.9	455.1	478.3
152.5°	343.9	359.2	395.2	446.1	465.4
155°	356.8	368.5	395.1	435.3	447.7
157.5°	366.2	375.6	395.1	426.3	435.0
160°	373.0	380.4	395.1	421.5	428.2
162.5°	378.4	384.5	395.7	417.4	422.7
165°	385.7	390.7	396.8	412.9	415.4
167.5°	390.8	394.6	397.6	409.2	409.8
170°	394.2	396.7	397.6	407.8	407.8
172.5°	396.9	398.1	397.6	405.7	405.1
175°	399.3	400.1	397.6	402.7	401.8
177.5°	400.0	400.0	397.3	401.3	400.0
180°	399.3	399.3	399.3	399.3	399.3

(END OF REPORT)