

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: P564086

Luminaire Tested: **SQ4-PR1-075U-075D-940-1D-UNV-STD-W-4**

Issue Date: 7/30/2021

Test Information

Test Method: LM-79-2019
Report Number: P564086
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1910-536-22, 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-PR1-075U-075D-940-1D-UNV-STD-W-4
Description: CORELITE SQ4 SUSPENDED LED LUMINAIRE WITH PERCEIVE RIPPLE CONTINUOUS LENS.
DOWNLIGHT 750 LUMENS PER FOOT
UPLIGHT 750 LUMENS PER FOOT
Light Source: 4000K CCT, 90 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

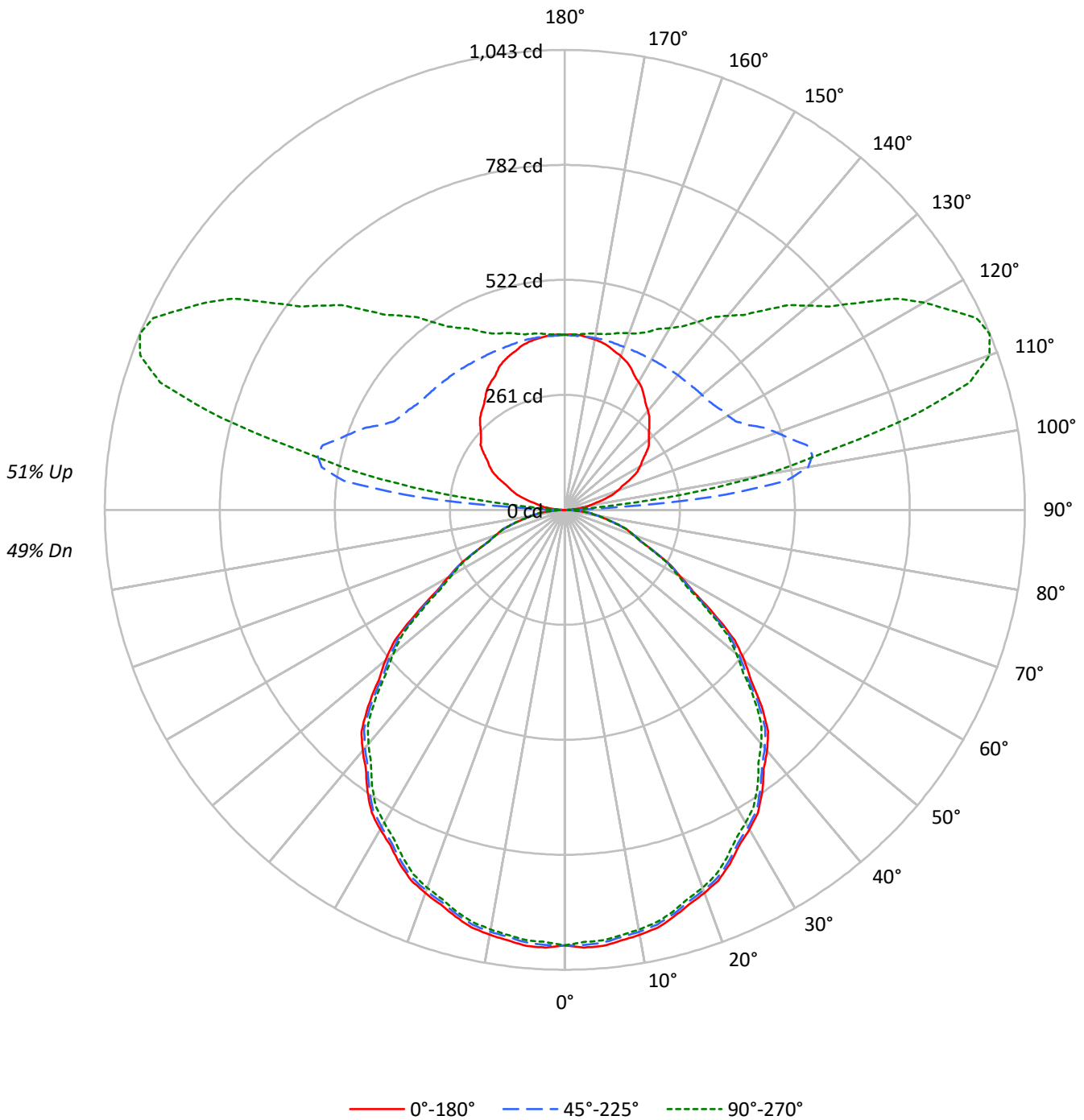
Lumens per Lamp: N/A
Luminaire Lumens: 5058.1 lumens
Efficiency: N/A
Efficacy: 119.0 lumens/watt
Spacing Criteria (0/90/45): 1.26 / 1.24 / 1.35
Luminous Opening: Rectangular (W 0.29' x L: 4' x H: 0')
CIE Type: General Diffuse

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	50	30	10	0	
RCR																						
0	107	107	107	107	98	98	98	98	83	83	83	68	68	68	55	55	55	49				49
1	98	94	90	86	90	86	83	80	73	71	68	60	59	57	49	48	47				47	42
2	89	82	76	71	82	76	71	66	64	60	57	53	51	48	44	42	40				40	35
3	82	72	65	59	75	67	61	56	57	52	48	47	44	41	39	36	34				34	30
4	75	64	56	50	69	59	53	47	51	45	41	42	39	36	35	32	30				30	26
5	69	57	49	43	63	53	46	41	45	40	36	38	34	31	31	28	26				26	23
6	63	51	43	38	58	48	41	36	41	35	31	35	30	27	29	25	23				23	20
7	59	46	39	33	54	43	36	31	37	32	28	31	27	24	26	23	21				21	18
8	54	42	35	29	50	39	32	28	34	28	25	29	25	21	24	21	18				18	16
9	51	39	31	26	47	36	29	25	31	26	22	26	22	19	22	19	17				17	14
10	47	35	28	23	44	33	27	22	29	23	20	24	20	17	21	17	15				15	13

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	9113	9113	9113
5°	9195	9123	9076
10°	9165	9102	9054
15°	9125	9068	9020
20°	9079	9021	8954
25°	9015	8954	8850
30°	8918	8854	8727
35°	8786	8710	8585
40°	8586	8493	8340
45°	8236	8092	7925
50°	7619	7437	7290
55°	6650	6500	6363
60°	5604	5556	5447
65°	4846	4866	4829
70°	4451	4475	4475
75°	4274	4274	4306
80°	4022	4070	4022
85°	3239	3599	3599



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	93.4	1.8
10°-20°	267.2	5.3
20°-30°	403.1	8.0
30°-40°	480.2	9.5
40°-50°	473.5	9.4
50°-60°	361.8	7.2
60°-70°	223.9	4.4
70°-80°	127.2	2.5
80°-90°	39.7	0.8
90°-100°	187.4	3.7
100°-110°	515.5	10.2
110°-120°	532.1	10.5
120°-130°	426.3	8.4
130°-140°	334.8	6.6
140°-150°	256.6	5.1
150°-160°	184.5	3.6
160°-170°	112.8	2.2
170°-180°	38.0	0.8
0°-30°	763.7	15.1
0°-40°	1243.9	24.6
0°-60°	2079.2	41.1
0°-90°	2470.1	48.8
90°-120°	1235.0	24.4
90°-150°	2252.7	44.5
90°-180°	2588.0	51.2
0°-180°	5058.1	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	988	988	988	988	988	
5°	993	982	985	982	980	94
15°	955	945	949	946	944	270
25°	886	875	880	870	869	408
35°	780	771	773	763	762	487
45°	631	623	620	609	607	484
55°	413	407	404	397	396	370
65°	222	220	223	221	221	225
75°	120	120	120	121	121	127
85°	31	32	34	34	34	36
90°	1	3	6	8	8	3
95°	28	102	331	142	90	29
105°	92	142	568	865	807	97
115°	163	199	456	907	1030	161
125°	225	256	413	699	819	201
135°	271	301	402	566	640	209
145°	314	335	396	482	519	197
155°	355	367	393	433	446	163
165°	384	389	395	411	413	108
175°	397	398	396	401	400	38
180°	397	397	397	397	397	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	987.7	987.7	987.7	987.7	987.7
2.5°	993.8	985.1	987.7	985.5	980.9
5°	992.8	982.0	985.1	981.7	980.0
7.5°	985.1	974.5	977.6	974.2	973.2
10°	978.3	968.3	971.5	968.1	966.4
12.5°	970.8	960.2	964.0	959.9	958.2
15°	955.3	945.4	949.4	945.9	944.3
17.5°	938.3	927.7	931.7	927.7	925.6
20°	924.7	914.7	918.8	912.8	912.0
22.5°	909.7	899.8	903.8	895.8	895.6
25°	885.6	874.8	879.6	870.2	869.4
27.5°	856.8	846.8	850.9	841.3	840.3
30°	837.1	827.1	831.1	820.9	819.2
32.5°	814.6	805.3	808.7	798.4	797.4
35°	780.1	770.9	773.3	763.1	762.2
37.5°	740.8	732.5	733.8	722.6	721.7
40°	712.9	704.6	705.2	693.3	692.5
42.5°	682.3	673.9	673.2	661.3	660.5
45°	631.2	622.9	620.2	609.1	607.4
47.5°	573.0	564.7	559.6	550.5	549.4
50°	530.8	522.5	518.1	510.4	507.9
52.5°	485.2	476.9	473.2	466.1	463.6
55°	413.4	406.8	404.1	397.2	395.6
57.5°	345.2	340.7	339.9	333.3	332.6
60°	303.7	301.2	301.1	295.2	295.2
62.5°	268.3	266.5	267.8	263.9	263.2
65°	222.0	220.4	222.9	221.2	221.2
67.5°	185.5	185.5	187.0	186.3	186.3
70°	165.0	165.0	165.9	165.9	165.9
72.5°	146.7	146.0	148.2	148.2	147.5
75°	119.9	119.9	119.9	120.8	120.8
77.5°	93.4	93.6	94.3	94.1	93.4
80°	75.7	76.5	76.6	75.7	75.7
82.5°	58.0	58.8	58.9	58.7	58.0
85°	30.6	32.3	34.0	34.0	34.0
87.5°	9.0	12.2	14.8	15.1	14.5
90°	0.8	3.3	5.9	7.6	7.6
92.5°	11.7	49.8	86.4	33.2	27.2
95°	27.9	102.3	331.3	141.7	90.4
97.5°	45.5	113.4	505.6	389.6	274.9
100°	58.3	120.3	560.4	565.6	461.5
102.5°	70.5	128.5	574.6	701.8	606.2
105°	92.1	141.7	568.0	865.1	807.2
107.5°	112.8	158.0	535.7	945.1	962.2
110°	127.6	169.0	511.4	964.9	1024.5



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	141.2	181.2	487.0	952.1	1042.7
115°	163.1	198.7	455.6	907.2	1029.5
117.5°	184.1	216.8	435.6	844.2	982.5
120°	196.9	228.4	426.9	796.9	939.9
122.5°	208.4	239.8	420.8	755.5	891.2
125°	224.8	256.2	413.3	699.2	819.1
127.5°	240.4	270.3	408.4	652.2	757.4
130°	248.5	279.1	405.7	624.3	720.2
132.5°	258.0	288.6	403.7	599.7	686.4
135°	271.3	301.1	401.5	565.5	639.9
137.5°	283.8	311.4	399.6	537.8	599.1
140°	293.3	318.9	399.0	519.4	574.8
142.5°	301.4	325.1	397.6	503.0	550.4
145°	313.6	335.1	395.6	481.8	519.0
147.5°	326.6	345.1	394.6	463.0	492.8
150°	334.7	351.3	393.9	452.7	475.9
152.5°	342.2	357.4	393.2	443.9	463.0
155°	355.0	366.6	393.0	433.1	445.5
157.5°	364.3	373.7	393.0	424.2	432.8
160°	371.1	378.5	393.0	419.4	426.0
162.5°	376.5	382.6	393.7	415.3	420.6
165°	383.7	388.7	394.7	410.9	413.3
167.5°	388.8	392.6	395.6	407.1	407.8
170°	392.2	394.7	395.6	405.7	405.7
172.5°	394.9	396.1	395.6	403.7	403.0
175°	397.3	398.1	395.6	400.6	399.8
177.5°	397.9	397.9	395.2	399.3	397.9
180°	397.3	397.3	397.3	397.3	397.3

(END OF REPORT)