

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: P563414

Luminaire Tested: **SQ4-PP3-075U-075D-940-1D-UNV-STD-W-4**

Issue Date: 7/30/2021

Test Information

Test Method: LM-79-2019
Report Number: P563414
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1910-536-22, 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-PP3-075U-075D-940-1D-UNV-STD-W-4
Description: CORELITE SQ4 SUSPENDED LED LUMINAIRE WITH PERCEIVE PRISM CONTINUOUS LENS.
DOWNLIGHT 750 LUMENS PER FOOT
UPLIGHT 750 LUMENS PER FOOT
Light Source: 4000K CCT, 90 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

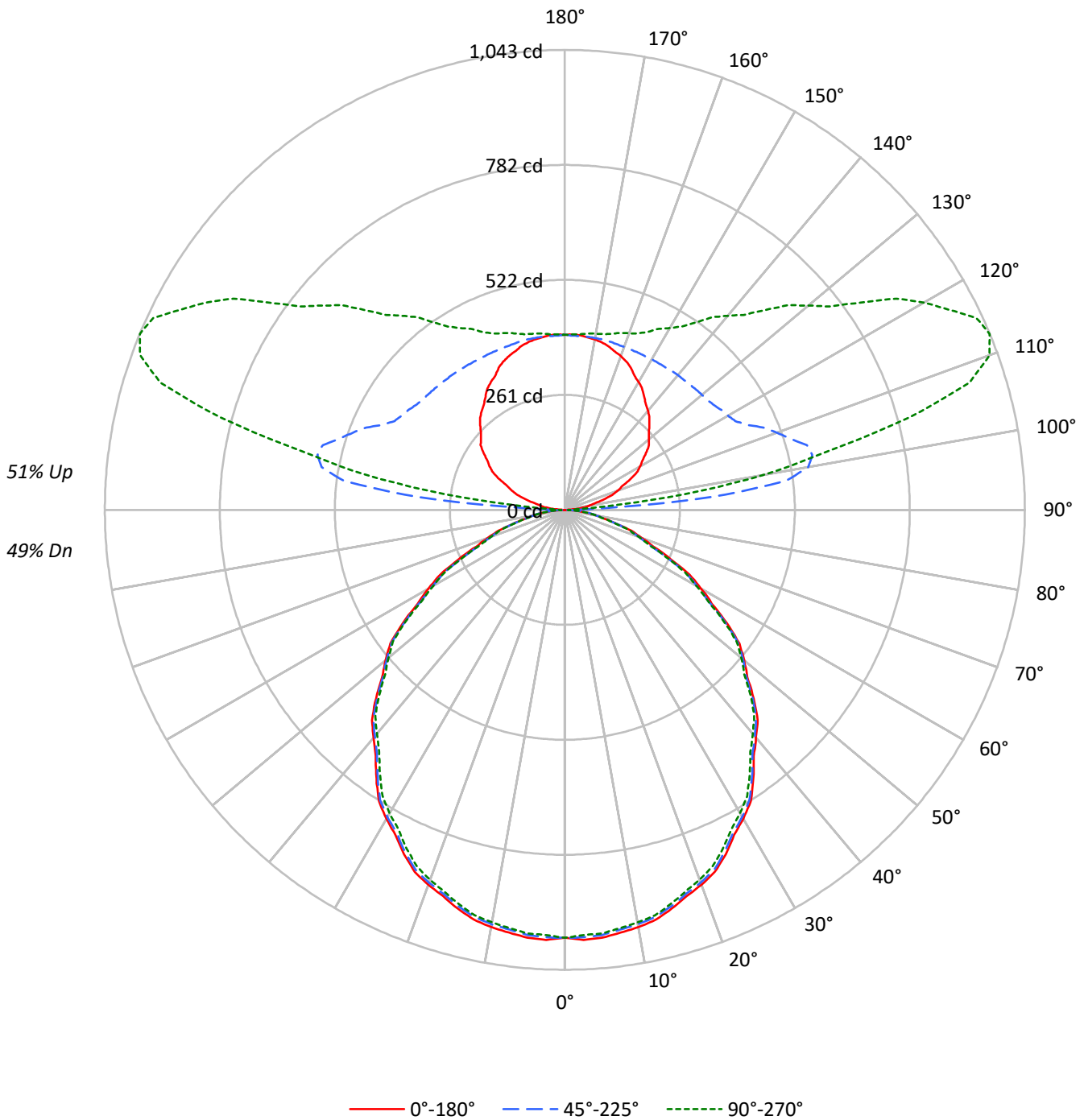
Lumens per Lamp: N/A
Luminaire Lumens: 5072.8 lumens
Efficiency: N/A
Efficacy: 119.4 lumens/watt
Spacing Criteria (0/90/45): 1.24 / 1.22 / 1.33
Luminous Opening: Rectangular (W 0.29' x L: 4' x H: 0')
CIE Type: General Diffuse

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				
RC	80					70					50					30				
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	94	90	86	90	86	83	80	73	71	68	61	59	57	49	48	47	42		
2	89	82	76	71	82	76	70	66	64	60	57	53	51	48	43	42	40	35		
3	81	72	65	59	75	67	60	55	57	52	48	47	44	41	39	36	34	30		
4	75	64	56	50	68	59	52	47	50	45	41	42	38	35	35	32	29	26		
5	68	57	49	43	63	53	46	40	45	40	35	38	34	30	31	28	26	22		
6	63	51	43	37	58	47	40	35	41	35	31	34	30	27	28	25	23	20		
7	58	46	38	33	54	43	36	31	37	31	27	31	27	24	26	23	20	18		
8	54	42	34	29	50	39	32	27	34	28	24	28	24	21	24	20	18	16		
9	50	38	31	26	46	36	29	24	31	25	22	26	22	19	22	19	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°	8953	8953	8953
5°	9019	8964	8933
10°	9004	8940	8900
15°	8944	8895	8847
20°	8885	8835	8768
25°	8779	8719	8632
30°	8617	8572	8463
35°	8391	8334	8229
40°	8122	8072	7979
45°	7902	7846	7769
50°	7617	7569	7495
55°	7224	7127	7073
60°	6576	6388	6357
65°	5794	5552	5532
70°	5001	4796	4796
75°	4306	4246	4185
80°	3794	3841	3751
85°	2975	3239	3239



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	91.8	1.8
10°-20°	262.0	5.2
20°-30°	392.5	7.7
30°-40°	460.3	9.1
40°-50°	461.8	9.1
50°-60°	393.9	7.8
60°-70°	256.9	5.1
70°-80°	128.9	2.5
80°-90°	36.7	0.7
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	0.7
0°-30°	746.2	14.7
0°-40°	1206.6	23.8
0°-60°	2062.3	40.7
0°-90°	2484.8	49.0
90°-120°	1235.0	24.3
90°-150°	2252.7	44.4
90°-180°	2588.0	51.0
0°-180°	5072.8	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	970	970	970	970	970	
5°	974	965	968	964	964	92
15°	936	927	931	928	926	264
25°	862	852	856	849	848	397
35°	745	738	740	731	731	465
45°	606	601	601	595	595	466
55°	449	447	443	440	440	399
65°	265	260	254	253	253	265
75°	121	121	119	118	117	131
85°	28	31	31	31	31	33
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°	970.4	970.4	970.4	970.4	970.4
2.5°	976.5	968.6	970.4	969.0	965.0
5°	973.8	964.7	967.9	964.5	964.5
7.5°	967.2	957.2	960.4	957.0	956.8
10°	961.1	951.1	954.3	950.8	950.0
12.5°	952.2	942.2	946.1	942.0	941.8
15°	936.4	927.3	931.3	927.9	926.2
17.5°	918.5	908.6	913.4	908.7	908.0
20°	904.9	895.0	899.8	893.0	893.0
22.5°	888.6	878.6	884.2	875.3	875.3
25°	862.4	852.4	856.5	848.8	847.9
27.5°	831.3	821.5	825.7	817.0	816.8
30°	808.8	799.7	804.6	795.2	794.4
32.5°	784.3	775.8	779.4	770.0	769.2
35°	745.0	737.6	739.9	731.4	730.6
37.5°	703.7	696.1	698.8	691.4	691.1
40°	674.4	669.5	670.2	664.2	662.5
42.5°	647.2	641.6	642.3	636.3	636.0
45°	605.6	601.4	601.3	595.4	595.4
47.5°	561.3	558.2	557.2	552.3	552.1
50°	530.7	528.2	527.3	523.0	522.2
52.5°	498.7	497.6	494.7	491.1	490.9
55°	449.1	447.4	443.1	440.5	439.7
57.5°	395.1	391.8	387.0	383.3	383.9
60°	356.4	353.0	346.2	344.5	344.5
62.5°	318.9	314.9	308.1	305.7	307.0
65°	265.4	260.4	254.3	252.6	253.4
67.5°	216.7	212.2	205.7	205.6	205.0
70°	185.4	182.9	177.8	177.8	177.8
72.5°	157.5	156.3	152.6	152.6	151.9
75°	120.8	120.8	119.1	118.2	117.4
77.5°	90.5	90.8	90.0	89.1	87.6
80°	71.4	73.1	72.3	71.4	70.6
82.5°	53.8	55.4	55.3	53.7	53.6
85°	28.1	30.6	30.6	30.6	30.6
87.5°	7.7	10.8	12.1	12.4	13.1
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)