

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: P564642

Luminaire Tested: **SQ4-PW1-050U-075D-830-1D-UNV-STD-W-4**

Issue Date: 7/30/2021

Test Information

Test Method: LM-79-2019
Report Number: P564642
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1910-536-21, 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-PW1-050U-075D-830-1D-UNV-STD-W-4
Description: CORELITE SQ4 SUSPENDED LED LUMINAIRE WITH PERCEIVE WAVES CONTINUOUS LENS.
DOWNLIGHT 750 LUMENS PER FOOT
UPLIGHT 500 LUMENS PER FOOT
Light Source: 3000K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

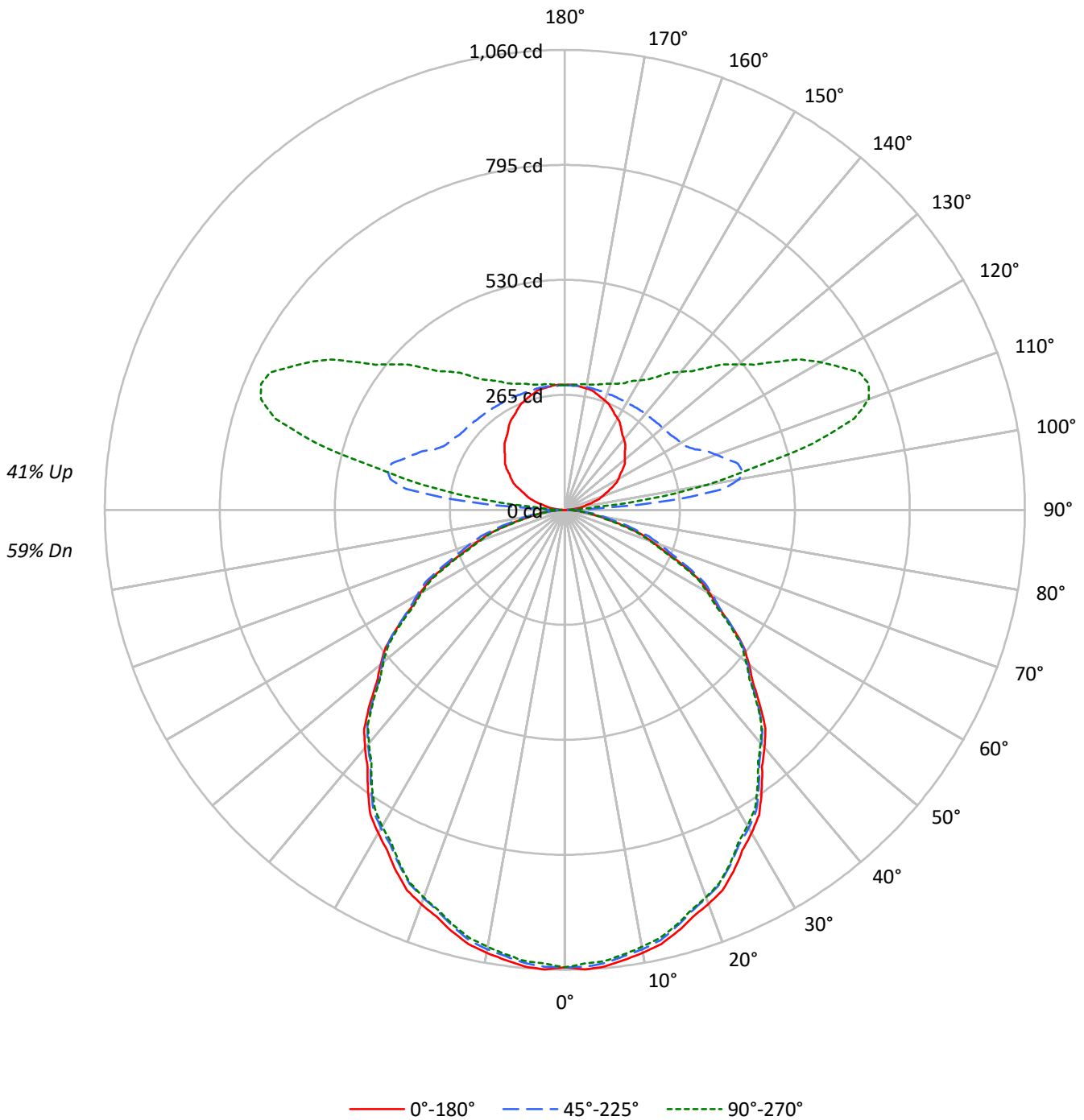
Lumens per Lamp: N/A
Luminaire Lumens: 4563.5 lumens
Efficiency: N/A
Efficacy: 125.7 lumens/watt
Spacing Criteria (0/90/45): 1.22 / 1.19 / 1.31
Luminous Opening: Rectangular (W 0.29' x L: 4' x H: 0')
CIE Type: General Diffuse

Input Watts (W): 36.3
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	109	109	109	109	102	102	102	102	88	88	88	76	76	76	64	64	64	59
1	100	96	92	88	93	89	86	83	78	75	73	67	65	63	57	56	55	50
2	91	84	77	72	85	78	73	68	68	64	60	59	56	53	50	48	46	42
3	83	74	66	60	77	69	62	57	60	55	51	52	48	45	45	42	39	36
4	76	65	57	51	71	61	54	48	54	48	43	46	42	39	40	37	34	31
5	70	58	50	44	65	55	47	42	48	42	38	42	37	34	36	32	30	27
6	64	52	44	38	60	49	42	36	43	37	33	38	33	29	33	29	26	23
7	60	47	39	33	55	44	37	32	39	33	29	34	30	26	30	26	23	21
8	55	43	35	30	52	40	33	28	36	30	26	31	27	23	27	24	21	19
9	52	39	32	26	48	37	30	25	33	27	23	29	24	21	25	22	19	17
10	48	36	29	24	45	34	27	23	30	25	21	27	22	19	23	20	17	15

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	9726	9726	9726
5°	9789	9712	9669
10°	9711	9633	9581
15°	9608	9502	9467
20°	9493	9348	9329
25°	9362	9190	9163
30°	9163	9025	8965
35°	8903	8777	8726
40°	8625	8491	8457
45°	8289	8181	8144
50°	7946	7879	7825
55°	7575	7575	7456
60°	7113	7250	6993
65°	6510	6833	6346
70°	5738	6288	5587
75°	4902	5629	4770
80°	3799	4739	3852
85°	2456	3642	3250



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	99.3	2.2
10°-20°	280.3	6.1
20°-30°	415.7	9.1
30°-40°	486.5	10.7
40°-50°	484.3	10.6
50°-60°	418.2	9.2
60°-70°	301.0	6.6
70°-80°	157.9	3.5
80°-90°	40.2	0.9
90°-100°	138.2	3.0
100°-110°	375.5	8.2
110°-120°	386.1	8.5
120°-130°	308.7	6.8
130°-140°	242.5	5.3
140°-150°	186.0	4.1
150°-160°	133.7	2.9
160°-170°	81.8	1.8
170°-180°	27.6	0.6
0°-30°	795.3	17.4
0°-40°	1281.7	28.1
0°-60°	2184.2	47.9
0°-90°	2683.3	58.8
90°-120°	899.8	19.7
90°-150°	1637.0	35.9
90°-180°	1880.0	41.2
0°-180°	4563.5	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1054	1054	1054	1054	1054	
5°	1057	1045	1049	1046	1044	100
15°	1006	993	995	993	991	284
25°	920	904	903	897	900	423
35°	790	780	779	772	775	494
45°	635	630	627	625	624	490
55°	471	470	471	464	464	420
65°	298	307	313	301	291	295
75°	138	150	158	147	134	147
85°	23	30	34	32	31	31
90°	1	4	6	8	8	2
95°	20	76	241	105	70	22
105°	67	104	413	629	592	71
115°	118	144	330	658	749	117
125°	163	186	299	504	594	145
135°	196	218	291	410	463	152
145°	227	243	287	349	375	142
155°	256	266	285	313	322	118
165°	278	281	286	298	299	78
175°	288	289	287	291	290	27
180°	288	288	288	288	288	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1054.2	1054.2	1054.2	1054.2	1054.2
2.5°	1060.2	1051.5	1054.2	1051.9	1046.8
5°	1057.0	1045.2	1048.7	1045.8	1044.0
7.5°	1046.3	1035.4	1037.9	1034.9	1033.8
10°	1036.6	1025.7	1028.2	1024.5	1022.7
12.5°	1025.4	1013.8	1016.3	1012.6	1011.5
15°	1005.9	993.2	994.8	992.9	991.1
17.5°	983.3	970.4	970.6	967.7	967.3
20°	966.9	953.3	952.1	948.4	950.2
22.5°	949.1	934.7	933.5	928.3	930.9
25°	919.6	904.1	902.8	897.3	900.1
27.5°	885.4	870.1	870.1	862.4	865.3
30°	860.1	845.6	847.1	837.9	841.5
32.5°	833.4	820.3	821.1	811.9	815.5
35°	790.5	779.6	779.3	771.9	774.7
37.5°	746.6	737.0	735.5	731.2	731.9
40°	716.1	708.0	705.0	702.2	702.2
42.5°	684.2	676.7	673.8	671.7	671.0
45°	635.3	629.9	627.0	625.1	624.2
47.5°	587.0	581.9	579.4	578.1	577.2
50°	553.6	550.0	548.9	546.1	545.2
52.5°	520.2	518.0	517.0	513.4	512.5
55°	470.9	470.0	470.9	464.4	463.5
57.5°	419.7	421.1	424.1	415.3	413.2
60°	385.5	389.1	392.9	382.6	379.0
62.5°	350.5	356.4	361.7	349.9	344.8
65°	298.2	307.2	313.0	300.7	290.7
67.5°	247.6	258.9	265.8	252.6	241.3
70°	212.7	225.4	233.1	219.8	207.1
72.5°	182.2	196.4	202.7	190.1	177.4
75°	137.5	150.2	157.9	147.4	133.8
77.5°	97.5	109.5	115.9	106.7	95.5
80°	71.5	84.2	89.2	81.5	72.5
82.5°	50.7	61.3	64.6	60.0	53.9
85°	23.2	30.5	34.4	32.5	30.7
87.5°	6.1	11.8	15.4	15.8	16.5
90°	0.9	3.6	6.5	8.3	8.3
92.5°	8.3	37.8	65.7	28.2	23.9
95°	20.4	75.6	240.7	104.8	70.4
97.5°	33.7	83.5	369.1	287.1	201.7
100°	42.6	88.8	408.3	413.9	334.3
102.5°	51.5	94.0	418.7	511.9	441.7
105°	66.7	103.8	413.0	628.8	591.7
107.5°	82.4	115.2	389.1	689.1	699.4
110°	93.5	123.4	371.3	701.0	745.4

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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	103.1	131.6	353.5	691.1	757.9
115°	118.5	143.9	330.5	657.6	749.1
117.5°	133.0	157.2	315.9	610.1	713.1
120°	142.6	166.1	309.3	578.2	680.5
122.5°	150.7	174.3	304.8	546.3	645.0
125°	163.0	185.6	299.1	503.9	594.4
127.5°	173.9	196.3	295.9	471.8	549.4
130°	180.6	202.3	294.4	451.6	521.3
132.5°	187.2	208.9	293.0	434.4	496.1
135°	196.3	218.0	290.7	410.4	463.0
137.5°	206.1	225.8	289.6	389.3	433.5
140°	212.0	231.0	288.9	375.9	415.7
142.5°	218.0	235.5	288.1	365.4	398.7
145°	226.8	243.1	287.0	348.7	375.0
147.5°	236.8	250.8	286.1	335.6	356.3
150°	243.5	255.3	286.1	328.1	344.4
152.5°	248.7	259.0	285.4	321.4	334.8
155°	256.5	265.5	285.2	313.2	322.2
157.5°	264.1	271.1	285.2	307.6	314.4
160°	268.5	274.9	285.2	303.8	309.3
162.5°	273.0	277.8	285.9	300.8	304.8
165°	277.8	281.4	286.1	298.2	299.1
167.5°	282.8	284.6	287.0	295.0	295.7
170°	284.3	286.1	287.0	293.5	293.5
172.5°	285.7	286.8	287.0	292.0	292.0
175°	288.0	288.9	287.0	290.7	289.8
177.5°	288.7	288.7	286.5	289.4	288.0
180°	288.0	288.0	288.0	288.0	288.0

(END OF REPORT)