

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: P564547

Luminaire Tested: **SQ4-PW1-025U-075D-830-1D-UNV-STD-W-6**

Issue Date: 7/30/2021

Test Information

Test Method: LM-79-2019
Report Number: P564547
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1910-536-32, 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-PW1-025U-075D-830-1D-UNV-STD-W-6
Description: CORELITE SQ4 SUSPENDED LED LUMINAIRE WITH PERCEIVE WAVES CONTINUOUS LENS.
DOWNLIGHT 750 LUMENS PER FOOT
UPLIGHT 250 LUMENS PER FOOT
Light Source: 3000K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

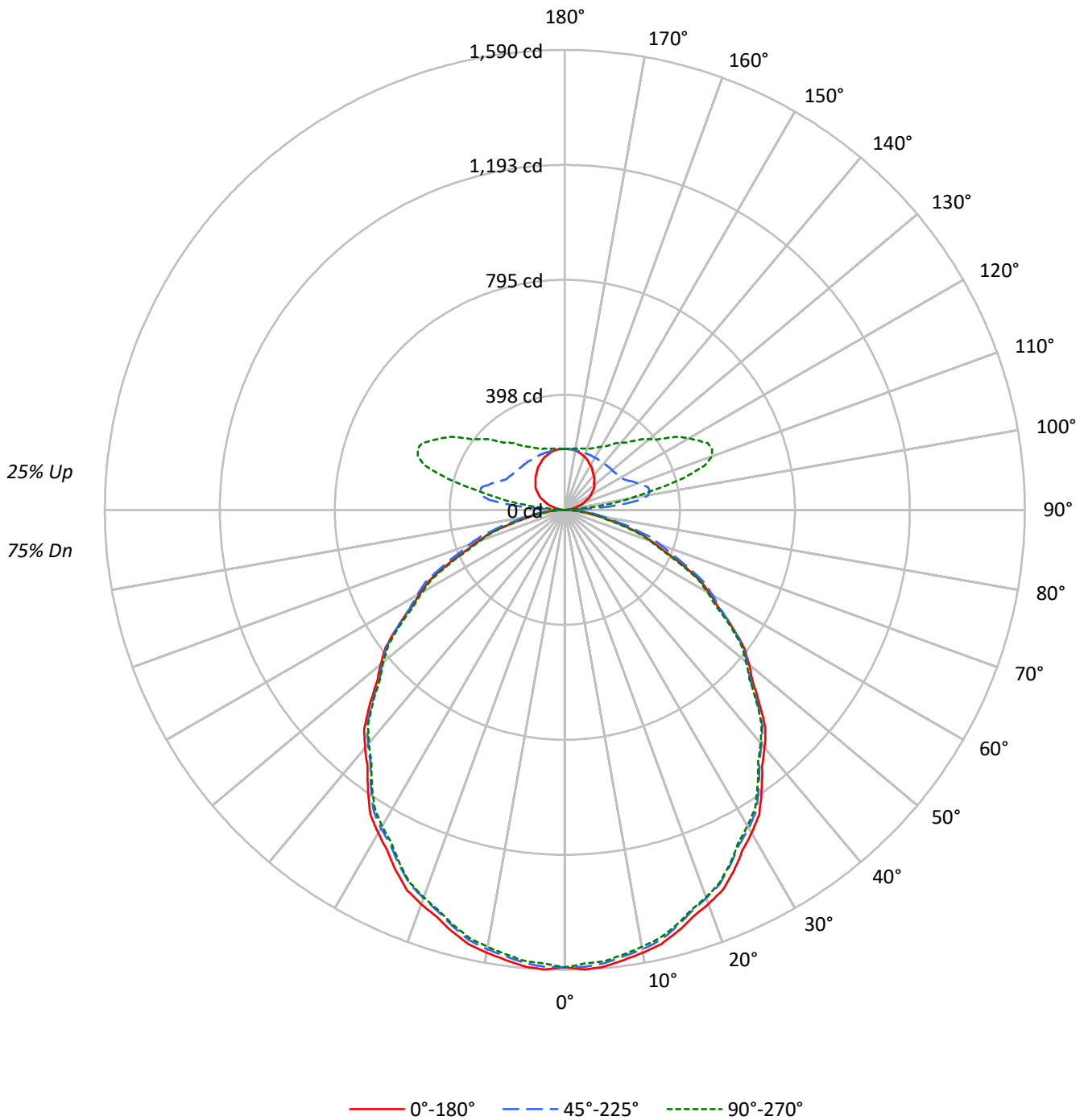
Lumens per Lamp: N/A
Luminaire Lumens: 5392.1 lumens
Efficiency: N/A
Efficacy: 110.9 lumens/watt
Spacing Criteria (0/90/45): 1.22 / 1.19 / 1.31
Luminous Opening: Rectangular (W 0.29' x L: 6' x H: 0')
CIE Type: Semi-Direct

Input Watts (W): 48.6
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	113	113	113	113	107	107	107	107	97	97	97	87	87	87	79	79	79	75
1	103	99	95	91	98	94	91	88	86	83	80	77	75	73	70	68	67	63
2	94	87	80	75	89	83	77	72	75	71	67	68	65	62	62	59	57	53
3	86	76	69	63	82	73	66	60	66	61	56	60	56	52	55	51	48	45
4	79	68	59	53	75	65	57	51	59	53	48	54	49	45	49	45	42	39
5	73	61	52	46	69	58	50	44	53	47	42	48	43	39	44	40	36	34
6	67	54	46	40	64	52	44	39	48	41	37	44	38	34	40	36	32	30
7	62	49	41	35	59	47	40	34	44	37	32	40	35	30	37	32	29	26
8	58	45	37	31	55	43	36	31	40	33	29	37	31	27	34	29	26	23
9	54	41	33	28	51	40	32	27	37	30	26	34	28	25	31	27	23	21
10	50	38	30	25	48	37	30	25	34	28	24	31	26	22	29	24	21	19

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	9727	9727	9727
5°	9789	9712	9669
10°	9711	9633	9581
15°	9608	9502	9466
20°	9494	9348	9329
25°	9361	9191	9163
30°	9163	9025	8965
35°	8903	8778	8725
40°	8625	8491	8457
45°	8290	8181	8144
50°	7946	7879	7826
55°	7575	7575	7455
60°	7113	7251	6993
65°	6509	6833	6347
70°	5739	6289	5588
75°	4900	5630	4767
80°	3801	4739	3850
85°	2456	3642	3246



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	148.9	2.8
10°-20°	420.4	7.8
20°-30°	623.6	11.6
30°-40°	729.7	13.5
40°-50°	726.4	13.5
50°-60°	627.3	11.6
60°-70°	451.5	8.4
70°-80°	236.8	4.4
80°-90°	59.8	1.1
90°-100°	102.8	1.9
100°-110°	270.3	5.0
110°-120°	280.3	5.2
120°-130°	224.9	4.2
130°-140°	176.4	3.3
140°-150°	135.4	2.5
150°-160°	97.5	1.8
160°-170°	59.7	1.1
170°-180°	20.2	0.4
0°-30°	1192.9	22.1
0°-40°	1922.6	35.7
0°-60°	3276.4	60.8
0°-90°	4024.6	74.6
90°-120°	653.5	12.1
90°-150°	1190.2	22.1
90°-180°	1368.0	25.4
0°-180°	5392.1	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1581	1581	1581	1581	1581	
5°	1586	1568	1573	1569	1566	150
15°	1509	1490	1492	1489	1487	425
25°	1379	1356	1354	1346	1350	634
35°	1186	1169	1169	1158	1162	741
45°	953	945	940	938	936	735
55°	706	705	706	697	695	630
65°	447	461	470	451	436	443
75°	206	225	237	221	201	221
85°	35	46	52	49	46	46
90°	1	4	11	5	5	2
95°	14	53	177	91	62	15
105°	49	74	299	454	423	52
115°	87	105	239	478	545	85
125°	120	135	218	368	434	107
135°	143	158	211	297	337	111
145°	166	177	208	253	273	104
155°	188	193	208	229	235	86
165°	203	206	208	216	219	57
175°	211	211	210	212	212	20
180°	211	211	211	211	211	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1581.4	1581.4	1581.4	1581.4	1581.4
2.5°	1590.3	1577.2	1581.4	1577.8	1570.2
5°	1585.5	1567.8	1573.0	1568.8	1566.0
7.5°	1569.4	1553.0	1556.8	1552.3	1550.7
10°	1554.9	1538.5	1542.4	1536.7	1534.0
12.5°	1538.2	1520.7	1524.5	1518.9	1517.3
15°	1508.9	1489.8	1492.2	1489.3	1486.6
17.5°	1474.9	1455.6	1456.0	1451.5	1451.0
20°	1450.4	1430.0	1428.1	1422.6	1425.3
22.5°	1423.6	1402.1	1400.2	1392.5	1396.3
25°	1379.3	1356.2	1354.3	1346.0	1350.1
27.5°	1328.1	1305.2	1305.2	1293.6	1298.0
30°	1290.2	1268.4	1270.7	1256.9	1262.3
32.5°	1250.0	1230.4	1231.7	1217.8	1223.3
35°	1185.7	1169.3	1169.0	1157.9	1162.0
37.5°	1119.9	1105.5	1103.2	1096.8	1097.9
40°	1074.2	1062.0	1057.5	1053.3	1053.3
42.5°	1026.3	1015.1	1010.7	1007.6	1006.5
45°	953.0	944.8	940.5	937.6	936.3
47.5°	880.5	872.9	869.1	867.1	865.8
50°	830.4	824.9	823.4	819.2	817.9
52.5°	780.2	777.0	775.5	770.2	768.8
55°	706.4	705.0	706.4	696.6	695.2
57.5°	629.5	631.7	636.2	623.0	619.7
60°	578.2	583.7	589.4	573.9	568.5
62.5°	525.8	534.5	542.5	524.8	517.2
65°	447.2	460.9	469.5	451.1	436.1
67.5°	371.4	388.3	398.8	378.9	362.0
70°	319.1	338.1	349.7	329.8	310.7
72.5°	273.4	294.6	304.0	285.2	266.1
75°	206.2	225.3	236.9	221.1	200.6
77.5°	146.3	164.3	173.9	160.1	143.2
80°	107.3	126.4	133.8	122.3	108.7
82.5°	76.1	91.9	97.0	90.1	80.8
85°	34.8	45.7	51.6	48.7	46.0
87.5°	9.2	17.3	23.3	22.3	23.4
90°	1.4	4.0	10.8	5.4	5.4
92.5°	5.7	27.4	60.6	26.8	17.3
95°	13.5	53.2	177.2	91.3	62.2
97.5°	23.5	58.4	265.1	210.8	155.3
100°	31.1	62.8	292.1	296.1	229.9
102.5°	37.6	67.2	299.7	368.8	312.2
105°	48.7	73.8	298.9	453.8	423.3
107.5°	60.1	83.3	281.9	497.9	505.3
110°	67.6	88.8	267.8	509.3	541.0



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	75.2	95.3	254.8	502.1	550.8
115°	86.6	105.1	239.4	477.6	545.1
117.5°	97.7	114.6	228.8	443.7	518.6
120°	104.1	120.0	224.5	420.9	493.7
122.5°	110.6	126.5	221.3	398.2	469.9
125°	120.4	134.9	217.8	368.0	434.2
127.5°	128.2	143.0	214.8	343.7	399.5
130°	132.5	148.4	213.7	328.5	380.1
132.5°	136.9	152.7	212.6	315.4	361.7
135°	143.4	157.9	211.0	297.1	336.8
137.5°	150.1	164.4	210.7	283.4	316.0
140°	155.5	168.8	209.6	272.6	303.0
142.5°	159.9	172.0	209.6	264.9	291.1
145°	166.4	176.9	208.3	253.4	273.2
147.5°	172.9	183.2	208.3	243.8	260.2
150°	177.2	186.4	208.3	238.3	251.6
152.5°	181.5	188.7	208.3	233.9	244.0
155°	188.0	193.3	208.3	228.7	235.3
157.5°	192.9	197.9	208.3	224.1	228.8
160°	196.1	200.1	208.3	221.9	224.5
162.5°	199.4	202.3	208.3	219.7	222.4
165°	202.9	205.5	208.3	216.5	219.1
167.5°	206.1	207.4	209.6	215.1	216.1
170°	208.3	209.6	209.6	215.1	215.1
172.5°	209.4	209.6	209.6	213.9	212.9
175°	211.0	211.0	209.6	212.3	212.3
177.5°	211.0	211.0	209.9	212.1	211.0
180°	211.0	211.0	211.0	211.0	211.0

(END OF REPORT)