

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: P563203

Luminaire Tested: **SQ4-PP3-025U-075D-830-1D-UNV-STD-W-6**

Issue Date: 7/30/2021

Test Information

Test Method: LM-79-2019
Report Number: P563203
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1910-536-32, 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-PP3-025U-075D-830-1D-UNV-STD-W-6
Description: CORELITE SQ4 SUSPENDED LED LUMINAIRE WITH PERCEIVE PRISM CONTINUOUS LENS.
DOWNLIGHT 750 LUMENS PER FOOT
UPLIGHT 250 LUMENS PER FOOT
Light Source: 3000K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

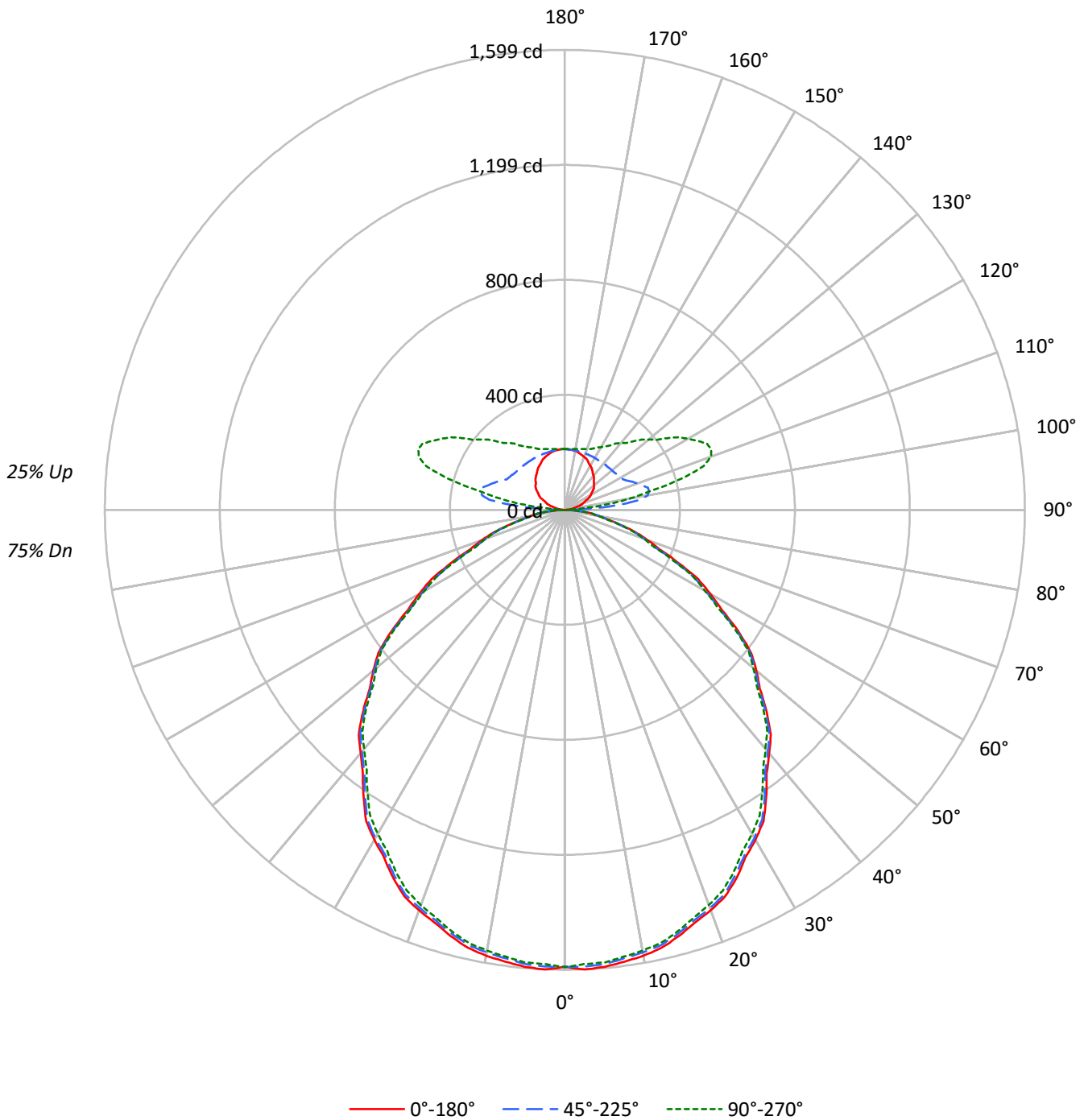
Lumens per Lamp: N/A
Luminaire Lumens: 5436.5 lumens
Efficiency: N/A
Efficacy: 111.9 lumens/watt
Spacing Criteria (0/90/45): 1.24 / 1.22 / 1.33
Luminous Opening: Rectangular (W 0.29' x L: 6' x H: 0')
CIE Type: Semi-Direct

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	50	30	10	0	
RCR																						
0	113	113	113	113	108	108	108	108	97	97	97	88	88	88	79	79	79	75				
1	104	99	95	92	98	95	91	88	86	83	81	78	76	74	70	69	67	64				
2	95	87	81	76	90	83	77	73	76	71	67	69	65	62	62	60	57	54				
3	87	77	69	63	82	73	67	61	67	61	57	61	57	53	55	52	49	46				
4	79	68	60	54	75	65	58	52	60	54	49	54	49	45	50	46	42	39				
5	73	61	53	46	69	58	51	45	54	47	42	49	44	40	45	40	37	34				
6	67	55	46	40	64	53	45	39	48	42	37	44	39	35	41	36	33	30				
7	62	50	41	36	59	48	40	35	44	37	33	40	35	31	37	33	29	27				
8	58	45	37	32	55	44	36	31	40	34	29	37	32	28	34	29	26	24				
9	54	41	34	28	51	40	33	28	37	31	26	34	29	25	32	27	24	22				
10	51	38	31	26	48	37	30	25	34	28	24	32	26	23	29	25	21	20				

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	9775	9775	9775
5°	9847	9787	9753
10°	9831	9761	9718
15°	9766	9713	9659
20°	9701	9646	9574
25°	9585	9520	9425
30°	9408	9359	9240
35°	9162	9100	8984
40°	8869	8813	8713
45°	8627	8566	8482
50°	8317	8264	8184
55°	7887	7782	7723
60°	7179	6974	6939
65°	6325	6062	6041
70°	5462	5235	5235
75°	4701	4634	4568
80°	4144	4194	4095
85°	3246	3536	3536



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	150.3	2.8
10°-20°	429.1	7.9
20°-30°	642.8	11.8
30°-40°	753.9	13.9
40°-50°	756.3	13.9
50°-60°	645.2	11.9
60°-70°	420.8	7.7
70°-80°	211.1	3.9
80°-90°	59.5	1.1
90°-100°	102.8	1.9
100°-110°	270.3	5.0
110°-120°	280.3	5.2
120°-130°	224.9	4.1
130°-140°	176.4	3.2
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°	1222.2	22.5
0°-40°	1976.1	36.3
0°-60°	3377.6	62.1
0°-90°	4069.0	74.8
90°-120°	653.5	12.0
90°-150°	1190.2	21.9
90°-180°	1368.0	25.2
0°-180°	5436.5	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1589	1589	1589	1589	1589	
5°	1595	1580	1585	1580	1580	151
15°	1534	1519	1525	1520	1517	433
25°	1412	1396	1403	1390	1389	649
35°	1220	1208	1212	1198	1196	762
45°	992	985	985	975	975	764
55°	736	733	726	722	720	654
65°	435	426	416	414	415	434
75°	198	198	195	194	192	215
85°	46	50	50	50	50	54
90°	1	4	11	5	5	3
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°	1589.3	1589.3	1589.3	1589.3	1589.3
2.5°	1599.4	1586.3	1589.3	1587.0	1580.4
5°	1594.9	1579.9	1585.2	1579.6	1579.6
7.5°	1584.1	1567.7	1572.9	1567.3	1567.1
10°	1574.0	1557.7	1562.9	1557.3	1555.9
12.5°	1559.5	1543.2	1549.5	1542.8	1542.5
15°	1533.6	1518.6	1525.3	1519.6	1516.9
17.5°	1504.4	1488.0	1496.0	1488.2	1487.1
20°	1482.1	1465.7	1473.7	1462.6	1462.6
22.5°	1455.3	1439.0	1448.1	1433.6	1433.6
25°	1412.4	1396.1	1402.7	1390.1	1388.8
27.5°	1361.5	1345.4	1352.3	1338.1	1337.8
30°	1324.7	1309.7	1317.7	1302.4	1301.0
32.5°	1284.6	1270.7	1276.5	1261.1	1259.8
35°	1220.2	1208.0	1211.9	1197.9	1196.5
37.5°	1152.5	1140.0	1144.4	1132.5	1131.9
40°	1104.6	1096.4	1097.6	1087.8	1085.1
42.5°	1060.0	1050.8	1052.0	1042.2	1041.6
45°	991.8	985.0	984.8	975.1	975.1
47.5°	919.3	914.2	912.7	904.6	904.3
50°	869.2	865.1	863.6	856.6	855.3
52.5°	816.8	814.9	810.1	804.3	804.0
55°	735.5	732.7	725.7	721.5	720.2
57.5°	647.2	641.7	633.8	627.7	628.8
60°	583.6	578.2	566.9	564.1	564.1
62.5°	522.4	515.8	504.5	500.7	502.9
65°	434.6	426.4	416.5	413.7	415.1
67.5°	354.9	347.6	336.8	336.8	335.7
70°	303.7	299.6	291.1	291.1	291.1
72.5°	258.0	256.1	249.9	249.9	248.8
75°	197.8	197.8	195.0	193.6	192.2
77.5°	148.2	148.8	147.4	145.9	143.5
80°	117.0	119.7	118.4	117.0	115.6
82.5°	88.0	90.8	90.5	88.0	87.8
85°	46.0	50.1	50.1	50.1	50.1
87.5°	12.5	17.4	20.0	18.9	20.0
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)