

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: P563875

Luminaire Tested: **SQ4-PR1-025U-075D-830-1D-UNV-STD-W-6**

Issue Date: 7/30/2021

Test Information

Test Method: LM-79-2019
Report Number: P563875
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1910-536-32, 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-PR1-025U-075D-830-1D-UNV-STD-W-6
Description: CORELITE SQ4 SUSPENDED LED LUMINAIRE WITH PERCEIVE RIPPLE CONTINUOUS LENS.
DOWNLIGHT 750 LUMENS PER FOOT
UPLIGHT 250 LUMENS PER FOOT
Light Source: 3000K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

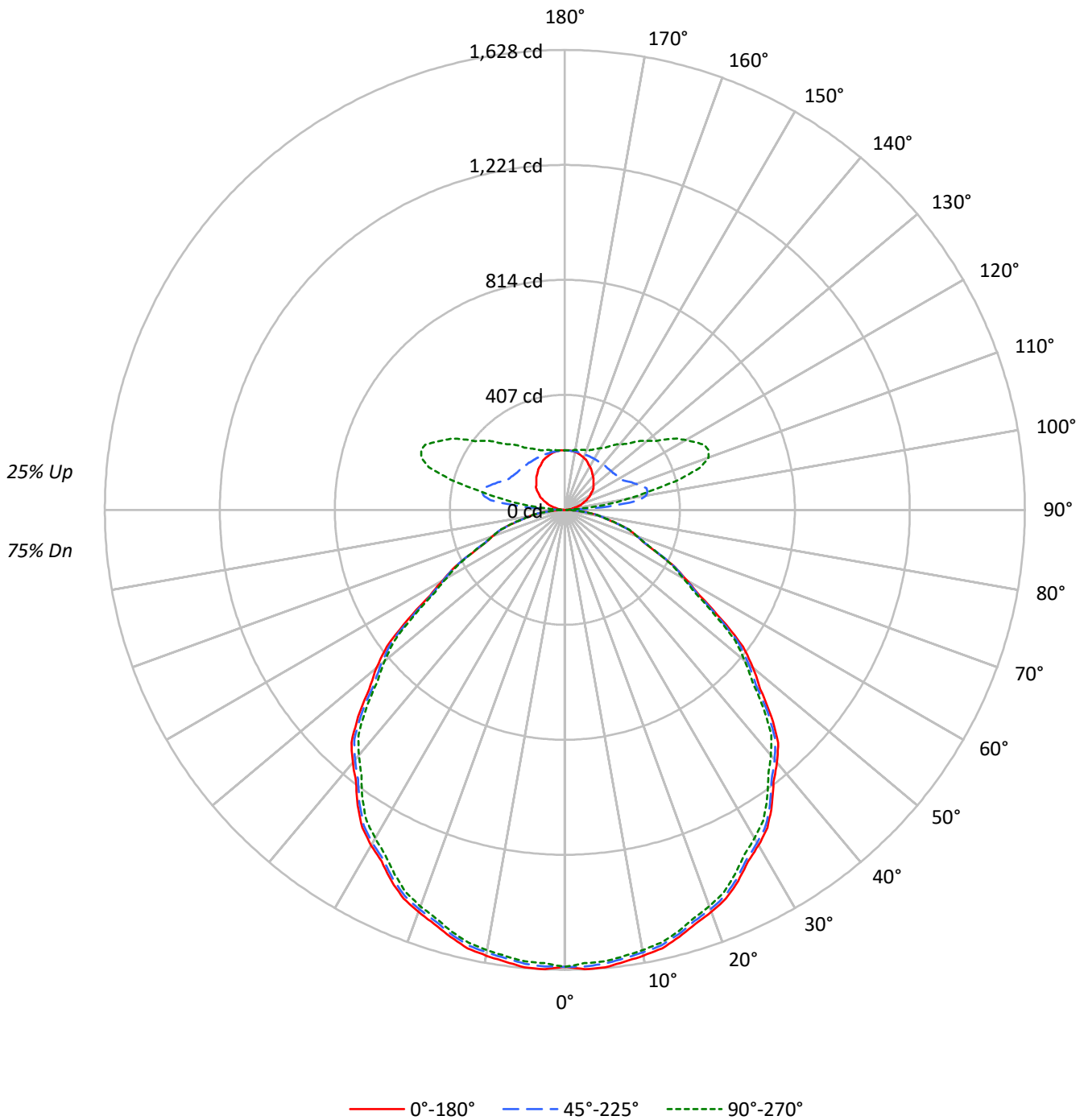
Lumens per Lamp: N/A
Luminaire Lumens: 5412.5 lumens
Efficiency: N/A
Efficacy: 111.4 lumens/watt
Spacing Criteria (0/90/45): 1.26 / 1.24 / 1.35
Luminous Opening: Rectangular (W 0.29' x L: 6' x H: 0')
CIE Type: Semi-Direct

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	107	107	107	107	97	97	97	88	88	88	79	79	79	75				
1	104	99	96	92	99	95	91	88	86	83	81	78	76	74	70	69	67	64				
2	95	87	81	76	90	83	78	73	76	71	68	69	65	62	62	60	58	54				
3	87	77	70	64	82	74	67	62	67	62	57	61	57	53	56	52	49	46				
4	80	69	61	54	76	66	58	53	60	54	49	55	50	46	50	46	43	40				
5	73	62	53	47	70	59	51	46	54	48	43	50	44	40	45	41	38	35				
6	68	55	47	41	64	53	46	40	49	43	38	45	40	35	41	37	33	31				
7	63	50	42	36	60	48	41	35	45	38	33	41	36	32	38	33	30	27				
8	58	46	38	32	56	44	37	32	41	34	30	38	32	28	35	30	27	25				
9	55	42	34	29	52	40	33	28	37	31	27	35	29	26	32	27	24	22				
10	51	39	31	26	49	37	30	26	35	29	24	32	27	23	30	25	22	20				

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	9950	9950	9950
5°	10039	9962	9910
10°	10007	9938	9886
15°	9963	9901	9848
20°	9913	9849	9776
25°	9843	9777	9664
30°	9737	9668	9529
35°	9593	9510	9374
40°	9375	9274	9106
45°	8993	8835	8653
50°	8319	8119	7959
55°	7261	7097	6948
60°	6119	6067	5948
65°	5292	5312	5273
70°	4861	4886	4886
75°	4670	4670	4701
80°	4392	4442	4392
85°	3543	3931	3931



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	153.0	2.8
10°-20°	437.7	8.1
20°-30°	660.1	12.2
30°-40°	786.5	14.5
40°-50°	775.5	14.3
50°-60°	592.6	10.9
60°-70°	366.7	6.8
70°-80°	208.3	3.8
80°-90°	64.5	1.2
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°	1250.7	23.1
0°-40°	2037.3	37.6
0°-60°	3405.4	62.9
0°-90°	4044.9	74.7
90°-120°	653.5	12.1
90°-150°	1190.2	22.0
90°-180°	1368.0	25.3
0°-180°	5412.5	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1618	1618	1618	1618	1618	
5°	1626	1608	1613	1608	1605	154
15°	1565	1548	1555	1549	1546	442
25°	1450	1433	1441	1425	1424	667
35°	1278	1263	1266	1250	1248	797
45°	1034	1020	1016	998	995	792
55°	677	666	662	651	648	607
65°	364	361	365	362	362	368
75°	196	196	196	198	198	207
85°	50	53	56	56	56	58
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°	1617.6	1617.6	1617.6	1617.6	1617.6
2.5°	1627.6	1613.4	1617.6	1614.1	1606.4
5°	1625.9	1608.2	1613.4	1607.8	1605.0
7.5°	1613.4	1596.0	1601.1	1595.5	1593.9
10°	1602.3	1585.9	1591.1	1585.5	1582.8
12.5°	1590.0	1572.6	1578.9	1572.1	1569.4
15°	1564.6	1548.3	1554.9	1549.3	1546.5
17.5°	1536.8	1519.3	1525.9	1519.4	1515.9
20°	1514.5	1498.1	1504.7	1494.9	1493.6
22.5°	1490.0	1473.6	1480.2	1467.1	1466.8
25°	1450.4	1432.7	1440.6	1425.3	1423.9
27.5°	1403.3	1387.0	1393.5	1377.9	1376.3
30°	1371.0	1354.6	1361.2	1344.4	1341.7
32.5°	1334.2	1318.9	1324.4	1307.7	1306.1
35°	1277.6	1262.6	1266.5	1249.7	1248.4
37.5°	1213.3	1199.6	1201.8	1183.4	1182.1
40°	1167.6	1153.9	1155.0	1135.5	1134.1
42.5°	1117.4	1103.8	1102.6	1083.1	1081.7
45°	1033.8	1020.2	1015.7	997.5	994.8
47.5°	938.5	924.9	916.5	901.7	899.8
50°	869.4	855.8	848.5	835.9	831.8
52.5°	794.7	781.1	774.9	763.4	759.3
55°	677.1	666.2	661.8	650.6	647.9
57.5°	565.4	558.0	556.8	545.9	544.8
60°	497.4	493.3	493.2	483.5	483.5
62.5°	439.4	436.4	438.6	432.2	431.1
65°	363.6	360.9	365.0	362.3	362.3
67.5°	303.7	303.7	306.2	305.1	305.1
70°	270.3	270.3	271.7	271.7	271.7
72.5°	240.2	239.1	242.7	242.7	241.6
75°	196.5	196.5	196.5	197.8	197.8
77.5°	153.0	153.3	154.4	154.1	153.0
80°	124.0	125.4	125.4	124.0	124.0
82.5°	95.0	96.4	96.4	96.1	95.0
85°	50.2	52.9	55.7	55.7	55.7
87.5°	14.8	19.6	24.5	23.3	22.3
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)