

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: P561808

Luminaire Tested: **SQ4-PR1-025U-100D-92765-1D-UNV-STD-W-4 (5000K)**

Issue Date: 7/30/2021

Test Information

Test Method: LM-79-2019
Report Number: P561808
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2101-105-51, 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-100D-92765-1D-UNV-STD-W-4 (5000K)
Description: CORELITE SQ4 SUSPENDED LED LUMINAIRE WITH PERCEIVE RIPPLE CONTINUOUS LENS
DOWNLIGHT 1000 LUMENS PER FOOT
UPLIGHT 250 LUMENS PER FOOT
Light Source: 2700K/65000K CCT, 90 CRI LEDS, TUNED TO 5000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

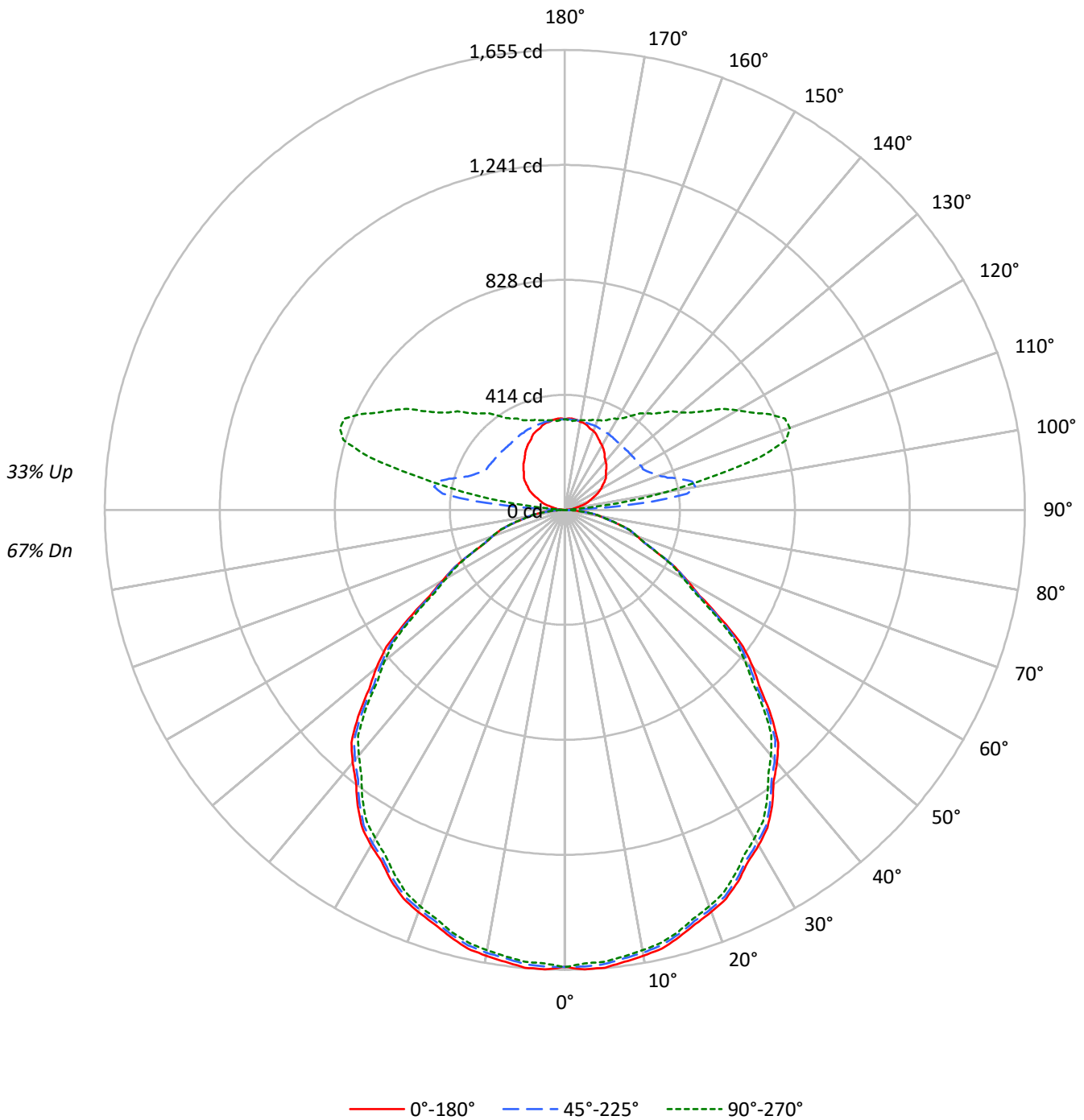
Lumens per Lamp: N/A
Luminaire Lumens: 6138.5 lumens
Efficiency: N/A
Efficacy: 109.0 lumens/watt
Spacing Criteria (0/90/45): 1.26 / 1.24 / 1.35
Luminous Opening: Rectangular (W 0.29' x L: 4' x H: 0')
CIE Type: Semi-Direct

Input Watts (W): 56.3
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	111	111	111	111	105	105	105	105	93	93	93	82	82	82	72	72	72	67
1	102	98	94	90	96	92	89	86	82	79	77	73	71	69	64	63	61	57
2	93	86	80	75	88	81	76	71	72	68	65	64	61	58	57	54	52	49
3	85	76	68	63	80	72	65	60	64	59	55	57	53	50	51	48	45	42
4	78	67	59	53	74	64	57	51	57	52	47	51	47	43	46	42	39	36
5	72	60	52	46	68	57	50	44	51	45	41	46	41	37	41	37	34	31
6	66	54	46	40	63	52	44	39	47	40	36	42	37	33	37	33	30	28
7	62	49	41	35	58	47	39	34	42	36	32	38	33	29	34	30	27	25
8	57	45	37	31	54	43	35	30	39	33	28	35	30	26	31	27	24	22
9	53	41	33	28	50	39	32	27	36	30	25	32	27	24	29	25	22	20
10	50	38	30	25	47	36	29	25	33	27	23	30	25	21	27	23	20	18

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	15177	15177	15177
5°	15314	15195	15117
10°	15265	15159	15080
15°	15199	15103	15022
20°	15121	15024	14913
25°	15015	14915	14742
30°	14853	14748	14537
35°	14634	14506	14299
40°	14300	14147	13890
45°	13717	13477	13200
50°	12690	12386	12142
55°	11076	10825	10597
60°	9333	9256	9073
65°	8073	8104	8043
70°	7416	7453	7453
75°	7122	7122	7172
80°	6700	6774	6700
85°	5399	6002	6002



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	155.6	2.5
10°-20°	445.1	7.3
20°-30°	671.3	10.9
30°-40°	799.9	13.0
40°-50°	788.6	12.8
50°-60°	602.7	9.8
60°-70°	373.0	6.1
70°-80°	211.9	3.5
80°-90°	64.4	1.0
90°-100°	148.6	2.4
100°-110°	422.9	6.9
110°-120°	405.2	6.6
120°-130°	320.7	5.2
130°-140°	257.4	4.2
140°-150°	201.5	3.3
150°-160°	147.4	2.4
160°-170°	91.3	1.5
170°-180°	31.0	0.5
0°-30°	1271.9	20.7
0°-40°	2071.8	33.8
0°-60°	3463.1	56.4
0°-90°	4112.3	67.0
90°-120°	976.8	15.9
90°-150°	1756.4	28.6
90°-180°	2026.0	33.0
0°-180°	6138.5	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1645	1645	1645	1645	1645	
5°	1654	1636	1641	1635	1632	157
15°	1591	1574	1581	1576	1573	449
25°	1475	1457	1465	1449	1448	679
35°	1299	1284	1288	1271	1270	811
45°	1051	1038	1033	1014	1012	805
55°	689	678	673	662	659	617
65°	370	367	371	368	368	375
75°	200	200	200	201	201	211
85°	51	54	57	57	57	59
90°	0	0	0	0	0	3
95°	16	64	288	100	61	18
105°	66	100	431	761	724	70
115°	122	148	327	692	813	120
125°	172	191	312	518	619	154
135°	211	228	308	437	494	163
145°	249	261	311	378	412	155
155°	284	291	318	342	356	131
165°	314	315	322	329	334	88
175°	329	327	326	324	321	31
180°	326	326	326	326	326	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1645.0	1645.0	1645.0	1645.0	1645.0
2.5°	1655.2	1640.8	1645.0	1641.4	1633.7
5°	1653.5	1635.5	1640.7	1635.0	1632.2
7.5°	1640.7	1623.0	1628.3	1622.6	1620.9
10°	1629.4	1612.8	1618.1	1612.3	1609.6
12.5°	1616.9	1599.2	1605.6	1598.7	1596.0
15°	1591.2	1574.5	1581.2	1575.5	1572.7
17.5°	1562.8	1545.1	1551.8	1545.2	1541.6
20°	1540.1	1523.5	1530.2	1520.3	1518.9
22.5°	1515.2	1498.6	1505.3	1492.0	1491.7
25°	1475.0	1457.0	1465.1	1449.4	1448.1
27.5°	1427.1	1410.5	1417.2	1401.3	1399.6
30°	1394.2	1377.6	1384.3	1367.2	1364.5
32.5°	1356.8	1341.3	1346.9	1329.8	1328.2
35°	1299.3	1284.0	1287.9	1270.9	1269.5
37.5°	1233.8	1220.0	1222.2	1203.5	1202.1
40°	1187.3	1173.5	1174.6	1154.7	1153.3
42.5°	1136.3	1122.5	1121.3	1101.5	1100.1
45°	1051.3	1037.5	1032.9	1014.4	1011.7
47.5°	954.4	940.6	932.0	917.0	915.0
50°	884.1	870.3	862.9	850.0	845.9
52.5°	808.2	794.3	788.1	776.4	772.2
55°	688.6	677.5	673.0	661.6	658.8
57.5°	575.0	567.5	566.2	555.1	554.0
60°	505.8	501.7	501.6	491.7	491.7
62.5°	446.9	443.8	446.0	439.5	438.4
65°	369.8	367.0	371.2	368.4	368.4
67.5°	308.9	308.9	311.4	310.3	310.3
70°	274.9	274.9	276.3	276.3	276.3
72.5°	244.3	243.2	246.8	246.8	245.7
75°	199.8	199.8	199.8	201.2	201.2
77.5°	155.6	155.9	157.0	156.7	155.6
80°	126.1	127.5	127.5	126.1	126.1
82.5°	96.6	98.0	98.0	97.7	96.6
85°	51.0	53.8	56.7	56.7	56.7
87.5°	14.7	19.2	22.7	22.6	21.5
90°	0.0	0.0	0.0	0.0	0.0
92.5°	5.0	26.3	61.0	17.8	13.4
95°	16.1	64.0	287.7	99.6	61.4
97.5°	29.6	75.0	443.1	317.1	217.3
100°	39.1	81.5	476.9	483.0	372.1
102.5°	49.5	88.5	469.4	618.3	521.4
105°	65.7	99.7	431.0	761.3	723.7
107.5°	82.2	112.7	386.1	801.6	835.1
110°	93.6	122.1	360.3	786.2	861.3

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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	104.6	131.6	342.9	749.7	856.9
115°	122.2	147.6	326.8	692.3	813.0
117.5°	137.7	161.6	317.3	629.6	757.4
120°	150.1	170.1	316.3	593.8	716.2
122.5°	160.0	180.0	313.8	562.3	676.1
125°	172.4	191.2	311.9	517.6	618.9
127.5°	185.9	203.5	310.9	490.9	574.4
130°	192.9	210.4	309.4	472.3	545.1
132.5°	200.3	217.4	309.4	457.8	524.7
135°	210.8	228.4	308.2	437.2	494.2
137.5°	220.8	237.9	308.1	419.8	469.1
140°	228.2	245.8	307.6	405.4	452.7
142.5°	236.6	251.3	309.1	393.9	436.3
145°	248.7	261.4	310.7	378.4	412.4
147.5°	259.0	271.3	313.4	362.8	392.2
150°	267.9	276.4	314.4	357.7	378.3
152.5°	274.8	283.8	315.4	350.7	369.8
155°	284.0	290.7	318.1	342.0	355.9
157.5°	295.4	299.4	318.7	338.1	348.0
160°	301.4	304.4	321.2	335.1	343.5
162.5°	304.9	308.4	321.7	332.5	339.1
165°	313.8	315.0	321.8	328.8	333.6
167.5°	319.9	318.8	324.7	327.8	329.8
170°	321.8	321.2	323.7	324.4	326.8
172.5°	326.3	324.2	325.2	323.4	325.3
175°	328.7	326.8	325.6	323.6	321.2
177.5°	329.7	326.7	325.2	323.2	323.7
180°	326.2	326.2	326.2	326.2	326.2

(END OF REPORT)