

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: P518981

Luminaire Tested: **SQ4-WB-025U-050D-840-1D-UNV-STD-W-6**

Issue Date: 4/29/2021

Test Information

Test Method: LM-79-2019
Report Number: P518981
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1910-536-32, G2-2009-966-13)
Test Lab: INNOVATION CENTER
Issue Date: 4/29/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: CORELITE
Catalog Number: SQ4-WB-025U-050D-840-1D-UNV-STD-W-6
Description: CORELITE SQ4 SUSPENDED LED LUMINAIRE WITH WHITE BAFFLE
DOWNLIGHT 500 LUMENS PER FOOT
UPLIGHT 250 LUMENS PER FOOT
Light Source: 4000K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

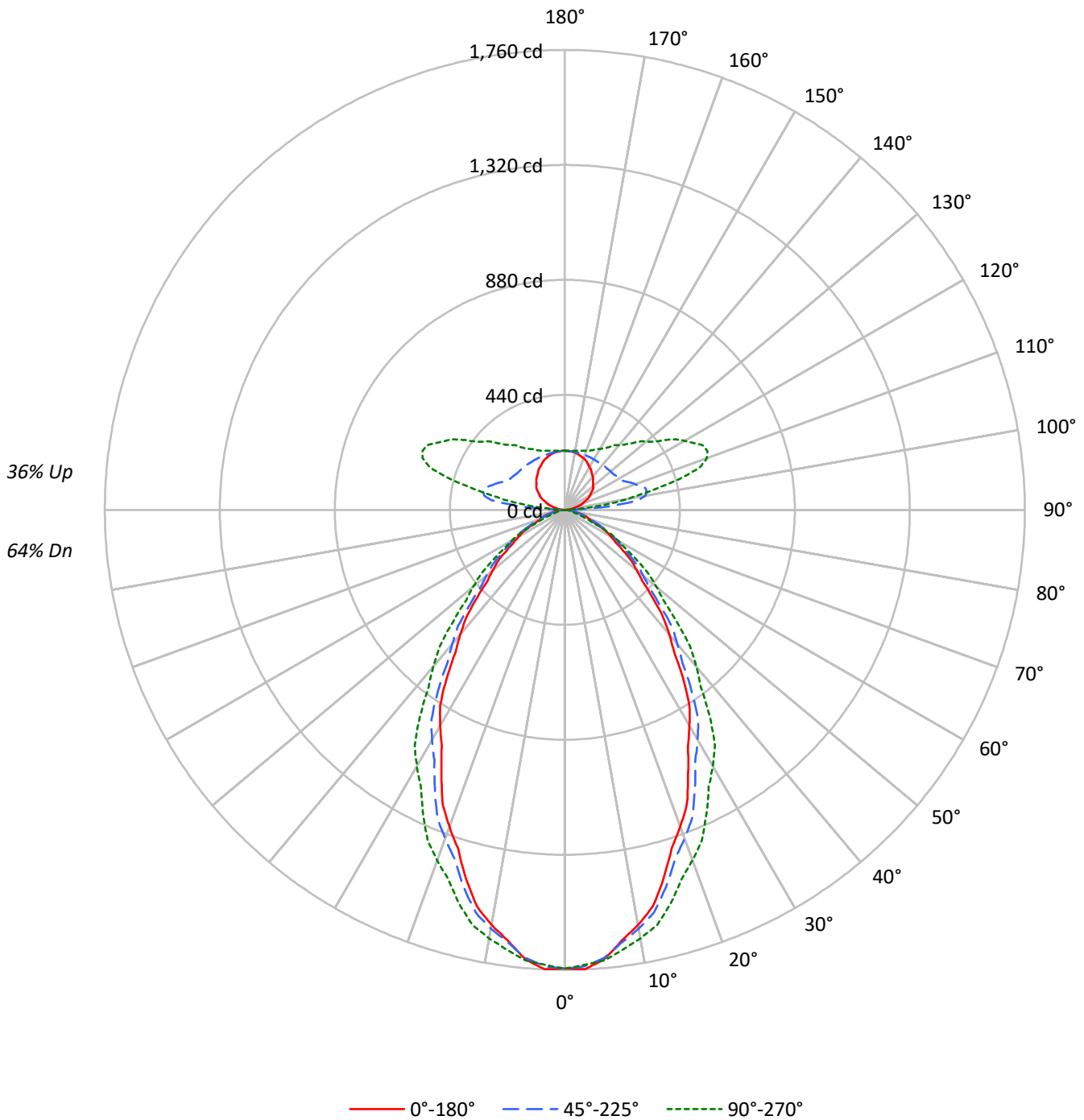
Lumens per Lamp: N/A
Luminaire Lumens: 4022.6 lumens
Efficiency: N/A
Efficacy: 115.3 lumens/watt
Spacing Criteria (0/90/45): 0.89 / 1 / 1.02
Luminous Opening: Rectangular (W 0.29' x L: 6' x H: 0')
CIE Type: Semi-Direct

Input Watts (W): 34.9
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	110	110	110	110	104	104	104	104	91	91	91	79	79	79	69	69	69	64				
1	102	98	95	92	96	93	90	87	82	80	78	72	70	69	63	62	61	56				
2	94	88	82	78	89	83	78	74	74	70	67	65	62	60	57	55	54	50				
3	87	79	72	67	82	74	68	64	66	62	58	59	56	53	52	50	47	44				
4	81	71	63	58	76	67	61	56	60	55	51	54	50	47	48	45	42	39				
5	75	64	56	51	70	61	54	49	55	49	45	49	45	41	44	41	38	35				
6	69	58	51	45	65	55	48	44	50	44	40	45	41	37	40	37	34	32				
7	65	53	46	40	61	51	44	39	46	40	36	42	37	34	37	34	31	29				
8	60	49	41	36	57	47	40	35	42	37	33	38	34	31	35	31	28	26				
9	57	45	38	33	53	43	37	32	39	34	30	36	31	28	32	29	26	24				
10	53	42	35	30	50	40	34	29	37	31	28	33	29	26	30	27	24	22				

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	10797	10797	10797
5°	10662	10624	10686
10°	10074	10165	10401
15°	9300	9515	9942
20°	8445	8763	9342
25°	7575	7987	8704
30°	6773	7216	8042
35°	5922	6350	7259
40°	4985	5380	6284
45°	4114	4469	5246
50°	3434	3744	4371
55°	2916	3213	3610
60°	2492	2786	2881
65°	1984	2343	1861
70°	1759	1829	1137
75°	1630	1483	696
80°	1502	1364	599
85°	1362	1249	487



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	161.0	4.0
10°-20°	418.8	10.4
20°-30°	542.5	13.5
30°-40°	531.2	13.2
40°-50°	406.6	10.1
50°-60°	270.9	6.7
60°-70°	147.9	3.7
70°-80°	61.6	1.5
80°-90°	18.7	0.5
90°-100°	110.0	2.7
100°-110°	289.3	7.2
110°-120°	300.0	7.5
120°-130°	240.6	6.0
130°-140°	188.8	4.7
140°-150°	144.9	3.6
150°-160°	104.4	2.6
160°-170°	63.9	1.6
170°-180°	21.6	0.5
0°-30°	1122.3	27.9
0°-40°	1653.5	41.1
0°-60°	2331.0	57.9
0°-90°	2559.2	63.6
90°-120°	699.3	17.4
90°-150°	1273.6	31.7
90°-180°	1463.0	36.4
0°-180°	4022.6	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1755	1755	1755	1755	1755	
5°	1727	1710	1721	1725	1731	161
15°	1460	1455	1494	1535	1561	408
25°	1116	1119	1177	1228	1282	513
35°	789	792	846	903	967	490
45°	473	482	514	553	603	369
55°	272	283	300	311	337	247
65°	136	148	161	141	128	142
75°	69	69	62	43	29	73
85°	19	19	18	12	7	21
90°	1	4	12	6	6	2
95°	14	57	190	98	67	16
105°	52	79	320	486	453	55
115°	93	112	256	511	583	91
125°	129	144	233	394	465	114
135°	153	169	226	318	360	119
145°	178	189	223	271	292	112
155°	201	207	223	245	252	92
165°	217	220	223	232	234	61
175°	226	226	224	227	227	21
180°	226	226	226	226	226	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1755.4	1755.4	1755.4	1755.4	1755.4
2.5°	1759.7	1744.0	1748.0	1747.9	1743.1
5°	1726.9	1709.6	1720.7	1724.7	1730.8
7.5°	1662.8	1649.7	1670.1	1685.1	1697.3
10°	1612.9	1601.6	1627.5	1649.5	1665.3
12.5°	1555.0	1545.5	1577.6	1607.1	1627.7
15°	1460.4	1455.1	1494.3	1534.9	1561.3
17.5°	1359.2	1356.6	1401.5	1449.0	1482.7
20°	1290.2	1289.4	1338.7	1388.1	1427.3
22.5°	1220.5	1222.2	1274.0	1325.4	1370.0
25°	1116.1	1119.1	1176.9	1228.2	1282.5
27.5°	1019.5	1020.9	1080.7	1134.8	1192.7
30°	953.6	957.3	1016.0	1072.0	1132.3
32.5°	887.6	892.0	949.4	1007.3	1068.8
35°	788.7	792.5	845.7	902.6	966.7
37.5°	686.8	691.9	739.1	792.9	855.9
40°	620.8	628.4	670.1	720.8	782.6
42.5°	557.4	566.7	605.4	653.5	709.2
45°	472.9	482.0	513.8	552.6	603.1
47.5°	400.2	410.6	435.0	468.5	511.6
50°	358.9	368.7	391.3	416.1	456.8
52.5°	322.6	332.4	352.5	371.6	406.2
55°	271.9	283.2	299.6	311.0	336.6
57.5°	230.3	241.1	254.2	259.3	274.8
60°	202.6	214.6	226.5	225.9	234.2
62.5°	177.3	187.6	199.3	191.2	191.6
65°	136.3	147.6	161.0	140.7	127.9
67.5°	110.1	112.6	126.3	98.1	82.9
70°	97.8	97.8	101.7	76.0	63.2
72.5°	86.1	86.1	82.6	61.8	48.4
75°	68.6	68.6	62.4	42.8	29.3
77.5°	52.8	52.2	47.8	32.0	21.3
80°	42.4	42.4	38.5	25.2	16.9
82.5°	33.1	33.1	29.9	19.7	12.6
85°	19.3	19.3	17.7	11.5	6.9
87.5°	7.1	7.6	8.5	4.8	4.2
90°	1.4	4.3	11.6	5.8	5.8
92.5°	6.1	29.3	64.8	28.7	18.5
95°	14.5	56.9	189.6	97.7	66.6
97.5°	25.2	62.5	283.7	225.6	166.2
100°	33.3	67.3	312.6	316.8	246.0
102.5°	40.2	71.9	320.7	394.6	334.0
105°	52.1	79.0	319.9	485.6	453.0
107.5°	64.3	89.2	301.6	532.8	540.7
110°	72.4	95.0	286.6	545.0	578.9

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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	80.5	102.0	272.7	537.3	589.4
115°	92.6	112.4	256.2	511.1	583.3
117.5°	104.5	122.6	244.9	474.8	554.9
120°	111.4	128.4	240.3	450.4	528.3
122.5°	118.4	135.4	236.8	426.1	502.8
125°	128.8	144.4	233.0	393.8	464.6
127.5°	137.2	153.1	229.8	367.8	427.5
130°	141.8	158.8	228.7	351.5	406.7
132.5°	146.5	163.5	227.5	337.5	387.0
135°	153.4	169.0	225.8	317.9	360.4
137.5°	160.7	175.9	225.5	303.3	338.1
140°	166.4	180.6	224.3	291.7	324.2
142.5°	171.1	184.1	224.3	283.4	311.5
145°	178.0	189.3	222.9	271.1	292.4
147.5°	185.0	196.0	222.9	260.9	278.5
150°	189.6	199.5	222.9	255.1	269.2
152.5°	194.2	201.9	222.9	250.3	261.1
155°	201.2	206.8	222.9	244.8	251.8
157.5°	206.4	211.8	222.9	239.8	244.9
160°	209.9	214.1	222.9	237.4	240.3
162.5°	213.3	216.5	222.9	235.1	237.9
165°	217.1	219.9	222.9	231.6	234.5
167.5°	220.6	222.0	224.3	230.2	231.3
170°	222.9	224.3	224.3	230.1	230.1
172.5°	224.0	224.3	224.3	228.9	227.8
175°	225.8	225.8	224.3	227.2	227.2
177.5°	225.8	225.8	224.6	226.9	225.8
180°	225.8	225.8	225.8	225.8	225.8

(END OF REPORT)