

Scaled data based on original data using
LM-79-08 Approved Method: Electrical and Photometric Measurements of Solid-State
Lighting Products

Test Report Prepared for

Cooper Lighting Solutions

(formerly Eaton)

Brand: CORELITE

Report Number: P521830

Luminaire Tested: **SQ4-WB-075U-075D-93050-1D-UNV-STD-W-4 (3500K)**

Issue Date: 5/5/2021

Test Information

Test Method: LM-79-08
Report Number: P521830
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2101-105-50,
Test Lab: INNOVATION CENTER
Issue Date: 5/5/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: CORELITE
Catalog Number: SQ4-WB-075U-075D-93050-1D-UNV-STD-W-4 (3500K)
Description: CORELITE SQ4 SUSPENDED LED LUMINAIRE WITH WHITE BAFFLE
DOWNLIGHT 750 LUMENS PER FOOT
UPLIGHT 750 LUMENS PER FOOT
Light Source: 3000K/5000K CCT, 90 CRI LEDS, TUNED TO 3500K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

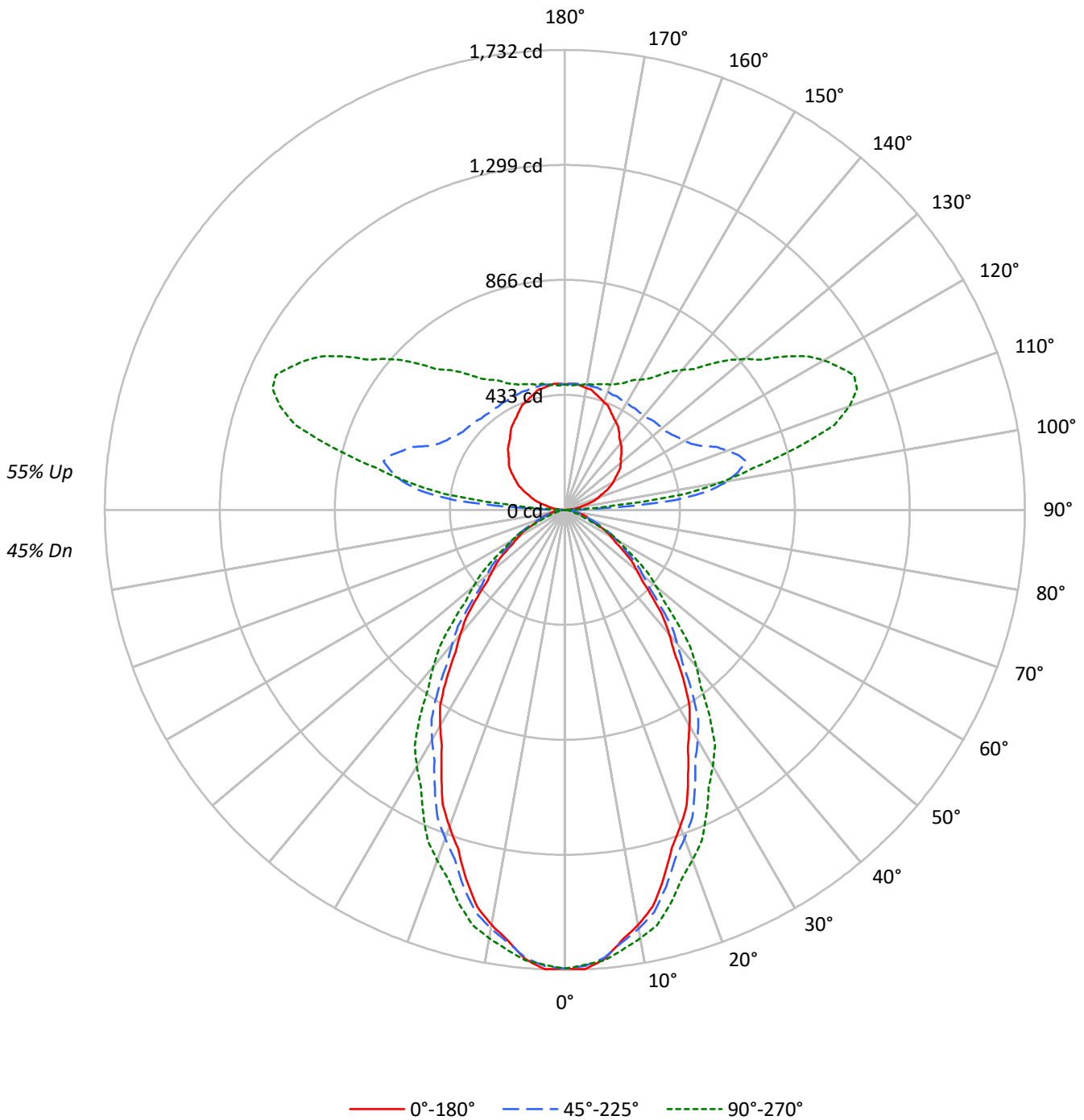
Lumens per Lamp: N/A
Luminaire Lumens: 5574.0 lumens
Efficiency: N/A
Efficacy: 101.0 lumens/watt
Spacing Criteria (0/90/45): 0.89 / 1 / 1.02
Luminous Opening: Rectangular (W 0.29' x L: 4' x H: 0')
CIE Type: General Diffuse

Input Watts (W): 55.2
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	106	106	106	106	97	97	97	97	81	81	81	66	66	66	52	52	52	45
1	98	94	90	87	90	86	83	81	72	70	68	59	58	57	47	46	46	40
2	90	83	78	73	82	77	72	68	65	61	58	53	51	49	43	41	40	35
3	83	74	67	62	76	68	63	58	58	54	50	48	45	43	39	37	35	31
4	76	66	59	54	70	61	55	50	52	48	44	44	40	38	36	33	31	28
5	70	60	52	47	65	55	49	44	47	42	39	40	36	33	33	30	28	25
6	65	54	46	41	60	50	44	39	43	38	34	36	33	30	30	27	25	23
7	61	49	42	36	56	46	39	35	39	34	31	33	30	27	28	25	23	20
8	56	45	38	33	52	42	35	31	36	31	28	31	27	24	26	23	21	19
9	53	41	34	29	49	39	32	28	33	28	25	29	25	22	24	21	19	17
10	49	38	31	27	46	36	29	25	31	26	23	27	23	20	23	20	18	16

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	15936	15936	15936
5°	15738	15681	15773
10°	14869	15004	15351
15°	13726	14045	14674
20°	12464	12934	13789
25°	11180	11789	12847
30°	9996	10650	11870
35°	8741	9373	10713
40°	7358	7942	9275
45°	6072	6596	7744
50°	5070	5526	6452
55°	4303	4742	5327
60°	3678	4111	4251
65°	2930	3458	2746
70°	2598	2698	1678
75°	2406	2189	1027
80°	2216	2014	887
85°	2001	1842	720



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	158.4	2.8
10°-20°	412.1	7.4
20°-30°	533.8	9.6
30°-40°	522.7	9.4
40°-50°	400.1	7.2
50°-60°	266.6	4.8
60°-70°	145.5	2.6
70°-80°	60.6	1.1
80°-90°	17.2	0.3
90°-100°	243.4	4.4
100°-110°	588.2	10.6
110°-120°	627.4	11.3
120°-130°	508.1	9.1
130°-140°	393.4	7.1
140°-150°	300.1	5.4
150°-160°	217.3	3.9
160°-170°	133.8	2.4
170°-180°	45.3	0.8
0°-30°	1104.3	19.8
0°-40°	1627.0	29.2
0°-60°	2293.7	41.2
0°-90°	2517.0	45.2
90°-120°	1459.0	26.2
90°-150°	2660.7	47.7
90°-180°	3057.0	54.8
0°-180°	5574.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1727	1727	1727	1727	1727	
5°	1699	1682	1693	1697	1703	158
15°	1437	1432	1470	1510	1536	401
25°	1098	1101	1158	1209	1262	505
35°	776	780	832	888	951	482
45°	465	474	506	544	594	363
55°	268	279	295	306	331	243
65°	134	145	158	138	126	139
75°	68	68	61	42	29	72
85°	19	19	17	11	7	21
90°	0	0	0	0	0	2
95°	24	122	417	271	190	27
105°	94	162	707	915	903	99
115°	172	220	568	1077	1201	170
125°	245	282	493	856	1006	219
135°	301	336	473	675	777	232
145°	356	382	464	574	619	223
155°	408	426	470	508	527	188
165°	451	458	476	483	490	127
175°	477	475	477	473	472	45
180°	472	472	472	472	472	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1727.3	1727.3	1727.3	1727.3	1727.3
2.5°	1731.6	1716.1	1720.0	1719.9	1715.2
5°	1699.3	1682.2	1693.2	1697.1	1703.1
7.5°	1636.2	1623.3	1643.3	1658.2	1670.2
10°	1587.1	1576.0	1601.5	1623.1	1638.6
12.5°	1530.1	1520.8	1552.4	1581.3	1601.7
15°	1437.0	1431.8	1470.4	1510.4	1536.3
17.5°	1337.4	1334.9	1379.1	1425.8	1459.0
20°	1269.5	1268.8	1317.3	1365.9	1404.4
22.5°	1201.0	1202.6	1253.6	1304.2	1348.1
25°	1098.2	1101.2	1158.1	1208.6	1262.0
27.5°	1003.2	1004.5	1063.4	1116.7	1173.6
30°	938.3	942.0	999.7	1054.9	1114.2
32.5°	873.4	877.7	934.2	991.2	1051.7
35°	776.1	779.8	832.2	888.2	951.2
37.5°	675.8	680.8	727.3	780.3	842.2
40°	610.9	618.3	659.4	709.3	770.1
42.5°	548.4	557.6	595.7	643.1	697.9
45°	465.4	474.3	505.5	543.8	593.5
47.5°	393.8	404.0	428.1	461.0	503.4
50°	353.2	362.8	385.0	409.4	449.5
52.5°	317.4	327.1	346.8	365.6	399.7
55°	267.5	278.7	294.8	306.0	331.2
57.5°	226.6	237.3	250.1	255.2	270.4
60°	199.3	211.2	222.8	222.3	230.4
62.5°	174.5	184.6	196.2	188.1	188.6
65°	134.2	145.3	158.4	138.4	125.8
67.5°	108.4	110.8	124.3	96.5	81.6
70°	96.3	96.3	100.0	74.7	62.2
72.5°	84.7	84.7	81.2	60.8	47.6
75°	67.5	67.5	61.4	42.1	28.8
77.5°	52.0	51.4	47.0	31.4	20.9
80°	41.7	41.7	37.9	24.8	16.7
82.5°	32.6	32.6	29.4	19.4	12.4
85°	18.9	18.9	17.4	11.3	6.8
87.5°	6.7	6.7	6.1	3.6	3.0
90°	0.0	0.0	0.0	0.0	0.0
92.5°	8.0	65.9	155.2	75.4	51.2
95°	24.0	121.8	417.0	271.2	190.0
97.5°	42.6	134.9	549.2	529.1	454.2
100°	57.0	143.0	622.0	656.6	595.0
102.5°	70.6	150.4	670.0	762.8	726.2
105°	94.0	162.4	707.0	914.7	903.0
107.5°	117.0	176.6	685.2	1036.6	1064.2
110°	133.0	188.7	650.0	1089.2	1141.0

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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	149.0	200.8	618.8	1102.0	1190.6
115°	172.0	219.9	568.0	1076.8	1201.0
117.5°	194.8	240.0	538.2	1018.9	1164.4
120°	210.0	252.0	519.0	973.5	1126.0
122.5°	226.0	264.9	507.0	927.0	1077.2
125°	245.0	282.2	493.0	856.4	1006.0
127.5°	263.8	298.8	483.2	796.6	928.0
130°	275.0	309.2	480.0	754.9	884.0
132.5°	285.4	321.2	475.2	724.9	834.4
135°	301.0	336.2	473.0	675.3	777.0
137.5°	315.8	351.2	466.0	641.7	718.4
140°	327.0	359.3	466.0	617.6	688.0
142.5°	338.2	370.5	462.0	596.6	656.0
145°	356.0	382.4	464.0	574.0	619.0
147.5°	372.6	398.2	462.8	548.0	585.2
150°	383.0	405.5	466.0	536.7	566.0
152.5°	394.2	415.9	465.2	524.6	550.8
155°	408.0	425.6	470.0	508.4	527.0
157.5°	424.6	439.7	469.0	502.2	513.2
160°	431.0	443.7	473.0	494.2	502.0
162.5°	441.4	452.5	471.4	491.7	496.4
165°	451.0	457.8	476.0	483.2	490.0
167.5°	462.8	467.3	474.8	482.6	482.8
170°	466.0	468.9	478.0	477.1	482.0
172.5°	471.6	473.8	475.6	477.7	474.8
175°	477.0	475.0	477.0	473.0	472.0
177.5°	476.0	476.0	474.4	472.7	468.8
180°	472.0	472.0	472.0	472.0	472.0

(END OF REPORT)