

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: P519208

Luminaire Tested: **SQ4-WB-075U-075D-940-1D-UNV-STD-W-4**

Issue Date: 4/29/2021

Test Information

Test Method: LM-79-2019
Report Number: P519208
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1910-536-22, 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-075U-075D-940-1D-UNV-STD-W-4
Description: CORELITE SQ4 SUSPENDED LED LUMINAIRE WITH WHITE BAFFLE
DOWNLIGHT 750 LUMENS PER FOOT
UPLIGHT 750 LUMENS PER FOOT
Light Source: 4000K CCT, 90 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

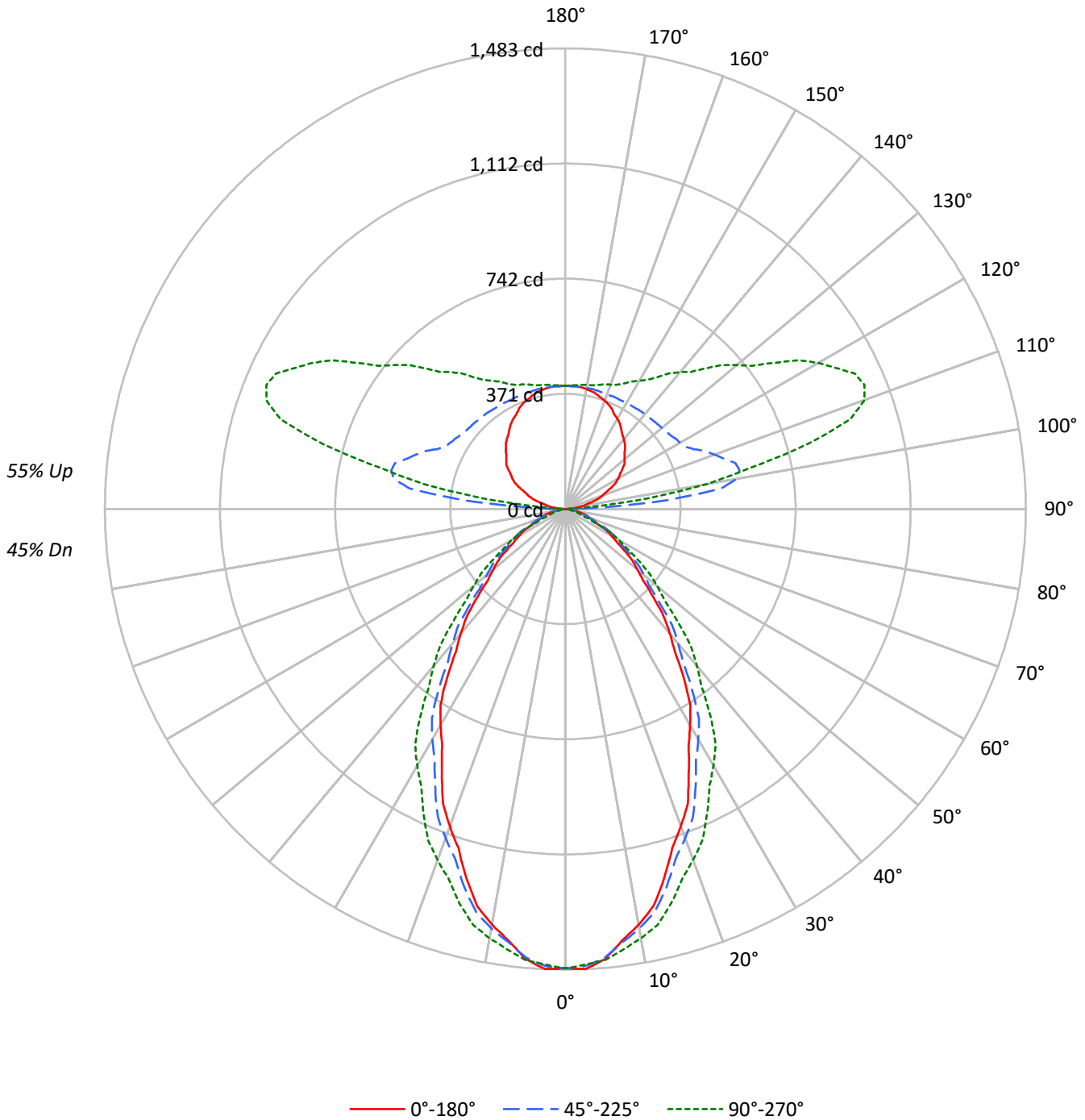
Lumens per Lamp: N/A
Luminaire Lumens: 4744.5 lumens
Efficiency: N/A
Efficacy: 111.6 lumens/watt
Spacing Criteria (0/90/45): 0.89 / 1 / 1.02
Luminous Opening: Rectangular (W 0.29' x L: 4' x H: 0')
CIE Type: General Diffuse

Input Watts (W): 42.5
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	47	46	40
2	90	83	78	73	82	77	72	68	65	61	58	53	51	49	43	42	40	36
3	83	74	67	62	76	69	63	58	58	54	50	48	45	43	39	37	36	31
4	76	66	59	54	70	61	55	50	52	48	44	44	40	38	36	34	32	28
5	70	60	52	47	65	55	49	44	47	42	39	40	36	33	33	30	28	25
6	65	54	47	41	60	50	44	39	43	38	34	36	33	30	30	28	26	23
7	61	49	42	37	56	46	39	35	39	34	31	34	30	27	28	25	23	21
8	56	45	38	33	52	42	36	31	36	31	28	31	27	24	26	23	21	19
9	53	41	34	29	49	39	32	28	34	29	25	29	25	22	24	21	19	17
10	49	38	31	27	46	36	30	25	31	26	23	27	23	20	23	20	18	16

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	13647	13647	13647
5°	13477	13429	13508
10°	12733	12849	13147
15°	11754	12027	12567
20°	10674	11076	11808
25°	9574	10097	11002
30°	8560	9120	10165
35°	7485	8027	9175
40°	6300	6801	7943
45°	5200	5648	6631
50°	4342	4732	5525
55°	3685	4062	4562
60°	3150	3521	3641
65°	2508	2962	2351
70°	2223	2312	1435
75°	2060	1875	880
80°	1897	1727	760
85°	1715	1577	614



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	135.7	2.9
10°-20°	352.9	7.4
20°-30°	457.1	9.6
30°-40°	447.6	9.4
40°-50°	342.6	7.2
50°-60°	228.3	4.8
60°-70°	124.6	2.6
70°-80°	51.9	1.1
80°-90°	15.7	0.3
90°-100°	187.4	3.9
100°-110°	515.5	10.9
110°-120°	532.1	11.2
120°-130°	426.3	9.0
130°-140°	334.8	7.1
140°-150°	256.6	5.4
150°-160°	184.5	3.9
160°-170°	112.8	2.4
170°-180°	38.0	0.8
0°-30°	945.7	19.9
0°-40°	1393.3	29.4
0°-60°	1964.3	41.4
0°-90°	2156.5	45.5
90°-120°	1235.0	26.0
90°-150°	2252.7	47.5
90°-180°	2588.0	54.5
0°-180°	4744.5	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1479	1479	1479	1479	1479	
5°	1455	1441	1450	1453	1458	135
15°	1231	1226	1259	1293	1316	344
25°	940	943	992	1035	1081	433
35°	665	668	713	761	815	413
45°	398	406	433	466	508	311
55°	229	239	252	262	284	208
65°	115	124	136	118	108	119
75°	58	58	53	36	25	62
85°	16	16	15	10	6	18
90°	1	3	6	8	8	3
95°	28	102	331	142	90	29
105°	92	142	568	865	807	97
115°	163	199	456	907	1030	161
125°	225	256	413	699	819	201
135°	271	301	402	566	640	209
145°	314	335	396	482	519	197
155°	355	367	393	433	446	163
165°	384	389	395	411	413	108
175°	397	398	396	401	400	38
180°	397	397	397	397	397	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1479.2	1479.2	1479.2	1479.2	1479.2
2.5°	1482.9	1469.7	1473.0	1472.9	1468.8
5°	1455.2	1440.6	1450.0	1453.4	1458.5
7.5°	1401.2	1390.2	1407.3	1420.0	1430.3
10°	1359.1	1349.6	1371.5	1390.0	1403.3
12.5°	1310.3	1302.3	1329.4	1354.2	1371.6
15°	1230.6	1226.2	1259.2	1293.4	1315.7
17.5°	1145.3	1143.2	1181.0	1221.0	1249.5
20°	1087.2	1086.6	1128.1	1169.7	1202.7
22.5°	1028.5	1029.9	1073.6	1116.9	1154.4
25°	940.5	943.0	991.8	1035.0	1080.7
27.5°	859.1	860.2	910.6	956.3	1005.0
30°	803.5	806.7	856.1	903.4	954.1
32.5°	748.0	751.7	800.0	848.9	900.6
35°	664.6	667.8	712.7	760.6	814.6
37.5°	578.7	583.0	622.8	668.2	721.2
40°	523.1	529.5	564.7	607.4	659.5
42.5°	469.7	477.5	510.2	550.7	597.7
45°	398.5	406.1	432.9	465.7	508.2
47.5°	337.3	346.0	366.6	394.8	431.1
50°	302.5	310.7	329.7	350.6	384.9
52.5°	271.8	280.1	297.0	313.1	342.3
55°	229.1	238.6	252.5	262.1	283.6
57.5°	194.1	203.2	214.2	218.5	231.6
60°	170.7	180.9	190.8	190.3	197.3
62.5°	149.4	158.0	168.0	161.1	161.5
65°	114.9	124.4	135.7	118.5	107.7
67.5°	92.8	94.8	106.4	82.7	69.8
70°	82.4	82.4	85.7	64.0	53.2
72.5°	72.6	72.6	69.6	52.1	40.8
75°	57.8	57.8	52.6	36.1	24.7
77.5°	44.5	44.0	40.2	26.9	17.9
80°	35.7	35.7	32.5	21.3	14.3
82.5°	27.9	27.9	25.2	16.6	10.6
85°	16.2	16.2	14.9	9.6	5.8
87.5°	5.9	6.4	6.4	4.6	4.1
90°	0.8	3.3	5.9	7.6	7.6
92.5°	11.7	49.8	86.4	33.2	27.2
95°	27.9	102.3	331.3	141.7	90.4
97.5°	45.5	113.4	505.6	389.6	274.9
100°	58.3	120.3	560.4	565.6	461.5
102.5°	70.5	128.5	574.6	701.8	606.2
105°	92.1	141.7	568.0	865.1	807.2
107.5°	112.8	158.0	535.7	945.1	962.2
110°	127.6	169.0	511.4	964.9	1024.5



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	141.2	181.2	487.0	952.1	1042.7
115°	163.1	198.7	455.6	907.2	1029.5
117.5°	184.1	216.8	435.6	844.2	982.5
120°	196.9	228.4	426.9	796.9	939.9
122.5°	208.4	239.8	420.8	755.5	891.2
125°	224.8	256.2	413.3	699.2	819.1
127.5°	240.4	270.3	408.4	652.2	757.4
130°	248.5	279.1	405.7	624.3	720.2
132.5°	258.0	288.6	403.7	599.7	686.4
135°	271.3	301.1	401.5	565.5	639.9
137.5°	283.8	311.4	399.6	537.8	599.1
140°	293.3	318.9	399.0	519.4	574.8
142.5°	301.4	325.1	397.6	503.0	550.4
145°	313.6	335.1	395.6	481.8	519.0
147.5°	326.6	345.1	394.6	463.0	492.8
150°	334.7	351.3	393.9	452.7	475.9
152.5°	342.2	357.4	393.2	443.9	463.0
155°	355.0	366.6	393.0	433.1	445.5
157.5°	364.3	373.7	393.0	424.2	432.8
160°	371.1	378.5	393.0	419.4	426.0
162.5°	376.5	382.6	393.7	415.3	420.6
165°	383.7	388.7	394.7	410.9	413.3
167.5°	388.8	392.6	395.6	407.1	407.8
170°	392.2	394.7	395.6	405.7	405.7
172.5°	394.9	396.1	395.6	403.7	403.0
175°	397.3	398.1	395.6	400.6	399.8
177.5°	397.9	397.9	395.2	399.3	397.9
180°	397.3	397.3	397.3	397.3	397.3

(END OF REPORT)