

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: P518532

Luminaire Tested: **SQ4-BB-075U-075D-935-1D-UNV-STD-W-4**

Issue Date: 4/29/2021

Test Information

Test Method: LM-79-2019
Report Number: P518532
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1910-536-22, G2-2009-966-12)
Test Lab: INNOVATION CENTER
Issue Date: 4/29/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: CORELITE
Catalog Number: SQ4-BB-075U-075D-935-1D-UNV-STD-W-4
Description: CORELITE SQ4 SUSPENDED LED LUMINAIRE WITH BLACK BAFFLE
DOWNLIGHT 750 LUMENS PER FOOT
UPLIGHT 750 LUMENS PER FOOT
Light Source: 3500K CCT, 90 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

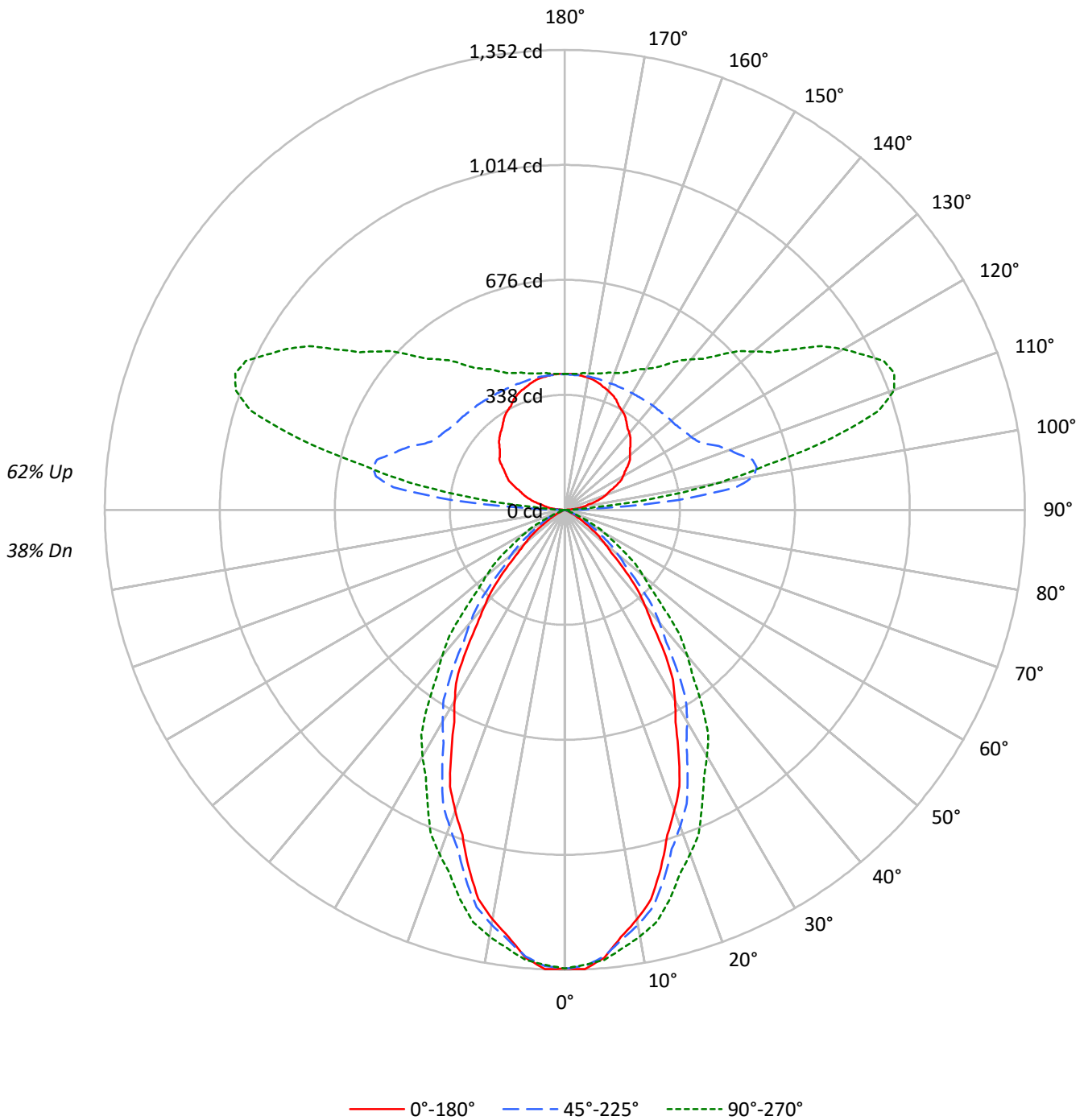
Lumens per Lamp: N/A
Luminaire Lumens: 4210.7 lumens
Efficiency: N/A
Efficacy: 99.1 lumens/watt
Spacing Criteria (0/90/45): 0.85 / 0.97 / 0.97
Luminous Opening: Rectangular (W 0.29' x L: 4' x H: 0')
CIE Type: Semi-Indirect

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	50	30	10	0	
RCR																						
0	104	104	104	104	95	95	95	95	77	77	77	60	60	60	45	45	45	38				
1	96	93	89	86	88	85	82	79	69	67	66	55	54	53	42	41	41	35				
2	89	83	77	73	81	76	71	67	62	59	57	50	48	46	39	38	37	32				
3	82	74	68	62	75	68	62	58	56	52	49	46	43	41	36	34	33	28				
4	76	66	59	54	69	61	55	50	51	47	43	42	39	36	33	31	30	26				
5	70	60	53	47	64	55	49	44	46	42	38	38	35	32	30	28	27	23				
6	65	54	47	42	59	50	44	39	42	38	34	35	32	29	28	26	24	21				
7	60	49	42	37	55	46	39	35	39	34	31	32	29	26	26	24	22	20				
8	56	45	38	33	52	42	36	31	36	31	28	30	26	24	24	22	20	18				
9	53	42	35	30	48	39	33	28	33	28	25	28	24	22	23	20	19	17				
10	49	38	32	27	45	36	30	26	31	26	23	26	23	20	21	19	17	15				

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	12441	12441	12441
5°	12240	12209	12300
10°	11453	11606	11929
15°	10411	10742	11340
20°	9242	9722	10574
25°	8048	8686	9715
30°	6894	7651	8902
35°	5716	6495	7920
40°	4391	5193	6748
45°	3175	3933	5431
50°	2163	2931	4307
55°	1406	2120	3347
60°	806	1493	2419
65°	214	910	1225
70°	105	281	351
75°	46	25	0
80°	37	0	0
85°	0	0	0



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	123.1	2.9
10°-20°	314.7	7.5
20°-30°	393.9	9.4
30°-40°	363.9	8.6
40°-50°	244.5	5.8
50°-60°	126.3	3.0
60°-70°	39.5	0.9
70°-80°	2.5	0.1
80°-90°	1.1	0.0
90°-100°	188.3	4.5
100°-110°	518.1	12.3
110°-120°	534.8	12.7
120°-130°	428.5	10.2
130°-140°	336.5	8.0
140°-150°	257.9	6.1
150°-160°	185.4	4.4
160°-170°	113.4	2.7
170°-180°	38.2	0.9
0°-30°	831.7	19.8
0°-40°	1195.6	28.4
0°-60°	1566.4	37.2
0°-90°	1609.5	38.2
90°-120°	1241.3	29.5
90°-150°	2264.2	53.8
90°-180°	2601.0	61.8
0°-180°	4210.7	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1348	1348	1348	1348	1348	
5°	1322	1308	1318	1323	1328	123
15°	1090	1086	1125	1162	1187	304
25°	791	797	853	912	954	362
35°	508	520	577	644	703	314
45°	243	258	301	360	416	191
55°	87	102	132	169	208	82
65°	10	19	42	50	56	17
75°	1	1	1	0	0	2
85°	0	0	0	0	0	0
90°	1	3	6	8	8	2
95°	28	103	333	142	91	30
105°	93	142	571	870	811	98
115°	164	200	458	912	1035	162
125°	226	258	415	703	823	202
135°	273	303	404	568	643	210
145°	315	337	398	484	522	198
155°	357	368	395	435	448	164
165°	386	391	397	413	415	109
175°	399	400	398	403	402	38
180°	399	399	399	399	399	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1348.4	1348.4	1348.4	1348.4	1348.4
2.5°	1351.5	1338.7	1342.1	1342.0	1338.4
5°	1321.6	1308.2	1318.3	1323.0	1328.1
7.5°	1265.8	1255.3	1274.8	1289.4	1299.9
10°	1222.5	1213.5	1238.8	1258.7	1273.3
12.5°	1172.4	1165.5	1196.0	1223.3	1242.0
15°	1090.0	1086.2	1124.6	1162.4	1187.2
17.5°	1001.8	1001.7	1045.5	1092.4	1122.4
20°	941.3	943.2	990.2	1041.9	1077.0
22.5°	880.8	885.2	935.4	989.3	1029.5
25°	790.6	797.0	853.2	911.6	954.3
27.5°	704.0	713.3	772.5	833.2	885.2
30°	647.1	657.9	718.2	782.0	835.6
32.5°	591.3	604.1	662.9	730.4	785.0
35°	507.5	520.3	576.7	644.5	703.2
37.5°	421.0	433.5	488.6	555.4	618.8
40°	364.6	378.7	431.2	495.9	560.3
42.5°	313.5	327.5	376.9	440.5	501.4
45°	243.3	258.0	301.4	360.1	416.2
47.5°	185.1	201.1	239.1	292.2	343.4
50°	150.7	166.6	204.2	251.0	300.1
52.5°	123.0	138.5	172.3	216.4	261.5
55°	87.4	102.1	131.8	169.2	208.1
57.5°	60.4	73.0	99.7	130.9	161.4
60°	43.7	55.8	80.9	106.2	131.1
62.5°	29.1	40.2	64.7	84.1	100.8
65°	9.8	18.7	41.7	50.4	56.1
67.5°	5.0	6.0	21.9	23.1	25.0
70°	3.9	3.9	10.4	11.1	13.0
72.5°	2.9	2.9	4.2	5.4	5.7
75°	1.3	1.3	0.7	0.0	0.0
77.5°	0.7	0.7	0.5	0.0	0.0
80°	0.7	0.7	0.0	0.0	0.0
82.5°	0.1	0.1	0.0	0.0	0.0
85°	0.0	0.0	0.0	0.0	0.0
87.5°	0.2	0.7	1.2	1.5	1.5
90°	0.8	3.3	5.9	7.6	7.6
92.5°	11.7	50.1	86.8	33.3	27.4
95°	28.0	102.8	333.0	142.4	90.9
97.5°	45.7	114.0	508.2	391.6	276.3
100°	58.6	120.9	563.3	568.5	463.9
102.5°	70.9	129.2	577.5	705.3	609.3
105°	92.6	142.4	570.9	869.5	811.3
107.5°	113.3	158.9	538.5	949.9	967.2
110°	128.3	169.8	514.0	969.9	1029.7



TEST NUMBER: P518532

CATALOG NUMBER: SQ4-BB-075U-075D-935-1D-UNV-STD-W-4

CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	141.9	182.1	489.5	957.0	1048.0
115°	164.0	199.7	457.9	911.8	1034.8
117.5°	185.0	217.9	437.9	848.5	987.5
120°	198.0	229.5	429.0	801.0	944.7
122.5°	209.5	241.1	422.9	759.4	895.8
125°	226.0	257.6	415.4	702.8	823.2
127.5°	241.6	271.7	410.5	655.6	761.2
130°	249.8	280.5	407.8	627.5	723.8
132.5°	259.3	290.0	405.8	602.8	689.9
135°	272.7	302.6	403.5	568.4	643.1
137.5°	285.3	313.0	401.7	540.5	602.2
140°	294.8	320.6	401.0	522.1	577.7
142.5°	303.0	326.7	399.6	505.6	553.2
145°	315.2	336.8	397.6	484.3	521.6
147.5°	328.3	346.9	396.6	465.4	495.3
150°	336.4	353.0	395.9	455.1	478.3
152.5°	343.9	359.2	395.2	446.1	465.4
155°	356.8	368.5	395.1	435.3	447.7
157.5°	366.2	375.6	395.1	426.3	435.0
160°	373.0	380.4	395.1	421.5	428.2
162.5°	378.4	384.5	395.7	417.4	422.7
165°	385.7	390.7	396.8	412.9	415.4
167.5°	390.8	394.6	397.6	409.2	409.8
170°	394.2	396.7	397.6	407.8	407.8
172.5°	396.9	398.1	397.6	405.7	405.1
175°	399.3	400.1	397.6	402.7	401.8
177.5°	400.0	400.0	397.3	401.3	400.0
180°	399.3	399.3	399.3	399.3	399.3

(END OF REPORT)