

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: P518536

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

Issue Date: 4/29/2021

Test Information

Test Method: LM-79-2019
Report Number: P518536
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-940-1D-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: 4000K CCT, 90 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

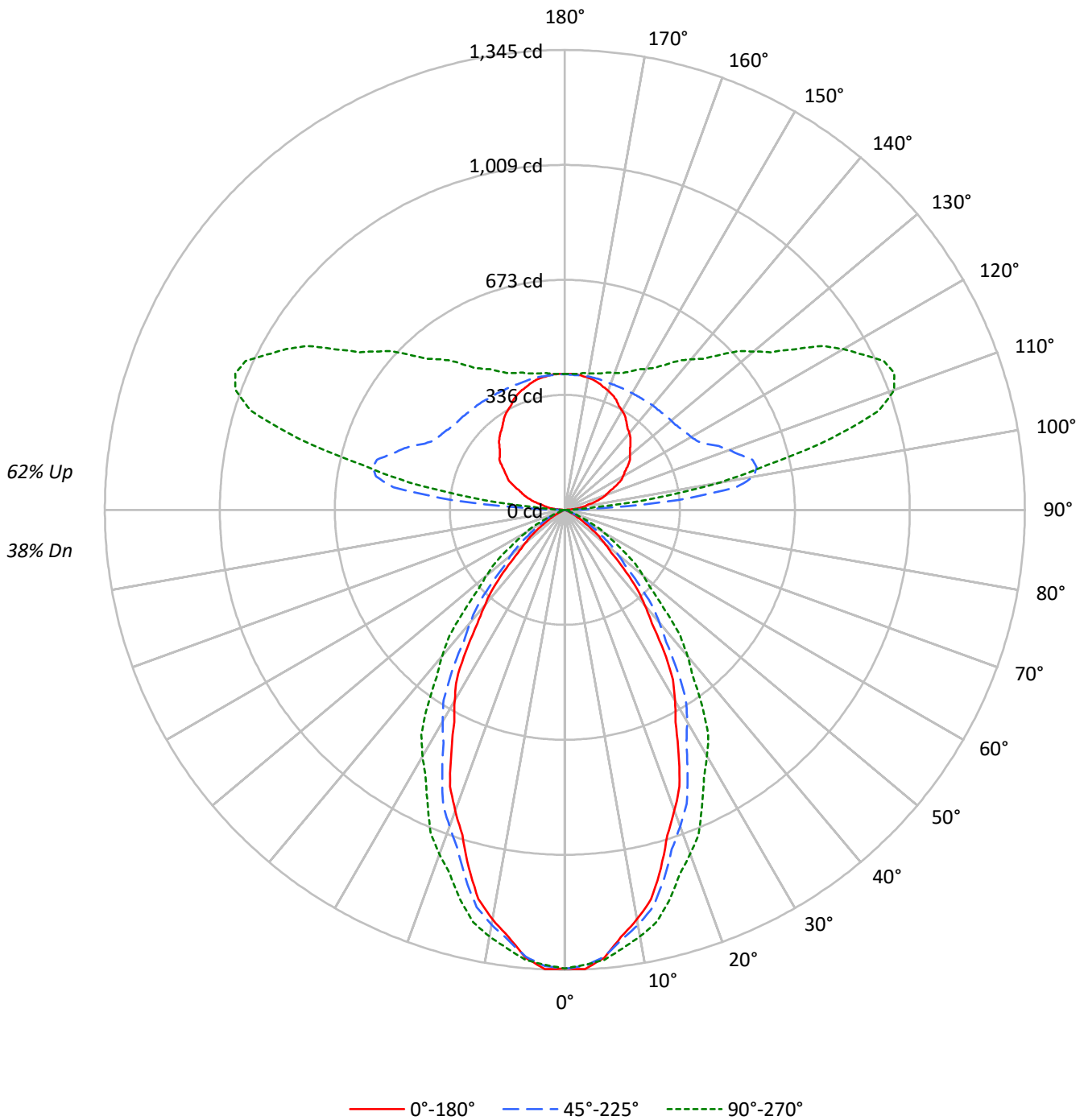
Lumens per Lamp: N/A
Luminaire Lumens: 4189.3 lumens
Efficiency: N/A
Efficacy: 98.6 lumens/watt
Spacing Criteria (0/90/45): 0.85 / 0.97 / 0.97
Luminous Opening: Rectangular (W 0.29' x L: 4' x H: 0')
CIE Type: Semi-Indirect

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



TEST NUMBER: P518536
CATALOG NUMBER: SQ4-BB-075U-075D-940-1D-UNV-STD-W-4

Luminous Intensity Polar Plot





TEST NUMBER: P518536

CATALOG NUMBER: SQ4-BB-075U-075D-940-1D-UNV-STD-W-4

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°	12377	12377	12377
5°	12178	12148	12238
10°	11394	11547	11869
15°	10359	10687	11282
20°	9195	9673	10520
25°	8008	8642	9666
30°	6859	7613	8857
35°	5687	6462	7880
40°	4370	5167	6715
45°	3159	3912	5403
50°	2152	2915	4284
55°	1399	2109	3330
60°	803	1485	2408
65°	212	906	1218
70°	105	281	351
75°	46	21	0
80°	32	0	0
85°	0	0	0



TEST NUMBER: P518536

CATALOG NUMBER: SQ4-BB-075U-075D-940-1D-UNV-STD-W-4

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	122.4	2.9
10°-20°	313.1	7.5
20°-30°	392.0	9.4
30°-40°	362.0	8.6
40°-50°	243.3	5.8
50°-60°	125.7	3.0
60°-70°	39.3	0.9
70°-80°	2.5	0.1
80°-90°	1.1	0.0
90°-100°	187.4	4.5
100°-110°	515.5	12.3
110°-120°	532.1	12.7
120°-130°	426.3	10.2
130°-140°	334.8	8.0
140°-150°	256.6	6.1
150°-160°	184.5	4.4
160°-170°	112.8	2.7
170°-180°	38.0	0.9
0°-30°	827.5	19.8
0°-40°	1189.5	28.4
0°-60°	1558.4	37.2
0°-90°	1601.3	38.2
90°-120°	1235.0	29.5
90°-150°	2252.7	53.8
90°-180°	2588.0	61.8
0°-180°	4189.3	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1342	1342	1342	1342	1342	
5°	1315	1302	1312	1316	1321	122
15°	1084	1081	1119	1156	1181	302
25°	787	793	849	907	950	361
35°	505	518	574	641	700	313
45°	242	257	300	358	414	190
55°	87	102	131	168	207	81
65°	10	19	42	50	56	16
75°	1	1	1	0	0	2
85°	0	0	0	0	0	0
90°	1	3	6	8	8	2
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	

TEST NUMBER: P518536

CATALOG NUMBER: SQ4-BB-075U-075D-940-1D-UNV-STD-W-4

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1341.5	1341.5	1341.5	1341.5	1341.5
2.5°	1344.6	1331.9	1335.3	1335.2	1331.6
5°	1314.9	1301.6	1311.7	1316.3	1321.4
7.5°	1259.3	1248.9	1268.3	1282.8	1293.3
10°	1216.2	1207.4	1232.5	1252.3	1266.9
12.5°	1166.4	1159.5	1189.9	1217.1	1235.7
15°	1084.5	1080.7	1118.9	1156.5	1181.2
17.5°	996.8	996.6	1040.2	1086.9	1116.7
20°	936.5	938.4	985.2	1036.6	1071.5
22.5°	876.3	880.7	930.7	984.3	1024.3
25°	786.6	792.9	848.9	907.0	949.5
27.5°	700.4	709.7	768.6	828.9	880.7
30°	643.8	654.6	714.6	778.1	831.4
32.5°	588.3	601.1	659.5	726.7	781.0
35°	504.9	517.6	573.7	641.3	699.6
37.5°	418.9	431.3	486.1	552.6	615.7
40°	362.8	376.8	429.0	493.4	557.5
42.5°	311.9	325.9	375.0	438.3	498.8
45°	242.1	256.7	299.8	358.2	414.1
47.5°	184.2	200.1	237.9	290.7	341.6
50°	149.9	165.8	203.1	249.7	298.5
52.5°	122.4	137.8	171.5	215.3	260.1
55°	87.0	101.6	131.1	168.3	207.0
57.5°	60.1	72.7	99.2	130.2	160.6
60°	43.5	55.5	80.5	105.7	130.5
62.5°	28.9	40.0	64.4	83.7	100.3
65°	9.7	18.6	41.5	50.1	55.8
67.5°	4.9	5.9	21.8	23.0	24.9
70°	3.9	3.9	10.4	11.1	13.0
72.5°	2.9	2.9	4.2	5.3	5.7
75°	1.3	1.3	0.6	0.0	0.0
77.5°	0.6	0.6	0.5	0.0	0.0
80°	0.6	0.6	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	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

TEST NUMBER: P518536

CATALOG NUMBER: SQ4-BB-075U-075D-940-1D-UNV-STD-W-4

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)