

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: P521103

Luminaire Tested: **SQ4-BB-075U-075D-93050-1D-UNV-STD-W-4 (4000K)**

Issue Date: 5/5/2021

Test Information

Test Method: LM-79-08
Report Number: P521103
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-BB-075U-075D-93050-1D-UNV-STD-W-4 (4000K)
Description: CORELITE SQ4 SUSPENDED LED LUMINAIRE WITH BLACK BAFFLE
DOWNLIGHT 750 LUMENS PER FOOT
UPLIGHT 750 LUMENS PER FOOT
Light Source: 3000K/5000K CCT, 90 CRI LEDS, TUNED TO 4000K CCT
Ballast/Driver: ELECTRONIC DRIVER

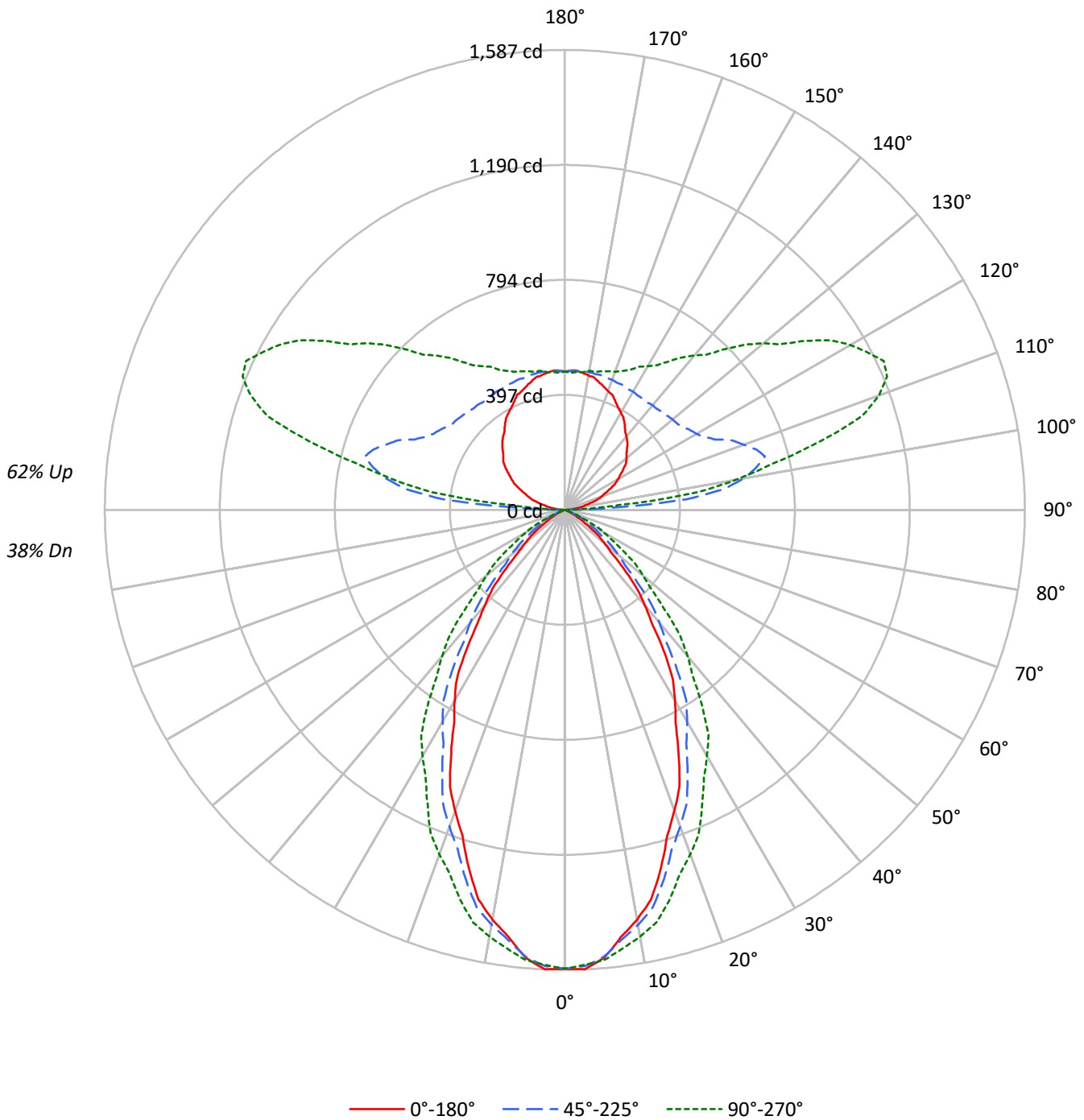
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4978.4 lumens
Efficiency: N/A
Efficacy: 90.2 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): 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	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	84	82	79	69	67	66	55	54	53	42	41	41	35				
2	89	83	77	73	81	75	71	67	62	59	56	50	48	46	39	37	36	31				
3	82	74	67	62	75	68	62	58	56	52	49	45	43	41	35	34	33	28				
4	76	66	59	54	69	61	55	50	51	47	43	41	39	36	33	31	29	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	19				
8	56	45	38	33	51	42	36	31	36	31	28	30	26	24	24	22	20	18				
9	53	41	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	22	20	21	19	17	15				

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	14608	14608	14608
5°	14373	14338	14444
10°	13449	13627	14008
15°	12226	12614	13316
20°	10852	11417	12417
25°	9451	10199	11409
30°	8096	8985	10453
35°	6712	7626	9300
40°	5157	6098	7925
45°	3728	4618	6376
50°	2539	3442	5058
55°	1650	2488	3931
60°	947	1753	2842
65°	251	1070	1439
70°	124	332	413
75°	53	29	0
80°	43	0	0
85°	0	0	0



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	144.5	2.9
10°-20°	369.5	7.4
20°-30°	462.6	9.3
30°-40°	427.3	8.6
40°-50°	287.1	5.8
50°-60°	148.3	3.0
60°-70°	46.5	0.9
70°-80°	2.9	0.1
80°-90°	0.1	0.0
90°-100°	246.0	4.9
100°-110°	594.5	11.9
110°-120°	634.1	12.7
120°-130°	513.5	10.3
130°-140°	397.6	8.0
140°-150°	303.3	6.1
150°-160°	219.6	4.4
160°-170°	135.2	2.7
170°-180°	45.8	0.9
0°-30°	976.6	19.6
0°-40°	1403.9	28.2
0°-60°	1839.3	36.9
0°-90°	1888.8	37.9
90°-120°	1474.5	29.6
90°-150°	2689.0	54.0
90°-180°	3090.0	62.1
0°-180°	4978.4	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1583	1583	1583	1583	1583	
5°	1552	1536	1548	1554	1560	144
15°	1280	1276	1321	1365	1394	356
25°	928	936	1002	1070	1121	426
35°	596	611	677	757	826	369
45°	286	303	354	423	489	224
55°	103	120	155	199	244	96
65°	12	22	49	59	66	19
75°	2	2	1	0	0	2
85°	0	0	0	0	0	0
90°	0	0	0	0	0	1
95°	24	123	421	274	192	27
105°	95	164	714	924	913	100
115°	174	222	574	1088	1214	172
125°	248	285	498	866	1017	221
135°	304	340	478	682	785	235
145°	360	386	469	580	626	225
155°	412	430	475	514	533	190
165°	456	463	481	488	495	129
175°	482	480	482	478	477	46
180°	477	477	477	477	477	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1583.3	1583.3	1583.3	1583.3	1583.3
2.5°	1587.0	1572.0	1576.0	1575.9	1571.7
5°	1551.9	1536.2	1548.1	1553.6	1559.6
7.5°	1486.3	1474.1	1496.9	1514.0	1526.5
10°	1435.5	1425.0	1454.6	1478.0	1495.2
12.5°	1376.6	1368.6	1404.4	1436.4	1458.5
15°	1280.0	1275.5	1320.6	1364.9	1394.1
17.5°	1176.4	1176.3	1227.7	1282.8	1318.0
20°	1105.3	1107.6	1162.8	1223.5	1264.7
22.5°	1034.2	1039.5	1098.4	1161.7	1208.9
25°	928.4	935.9	1001.9	1070.5	1120.7
27.5°	826.7	837.6	907.1	978.3	1039.5
30°	759.9	772.6	843.4	918.3	981.2
32.5°	694.3	709.4	778.4	857.7	921.8
35°	595.9	610.9	677.1	756.8	825.7
37.5°	494.4	509.1	573.7	652.2	726.6
40°	428.2	444.7	506.3	582.3	658.0
42.5°	368.1	384.6	442.6	517.3	588.7
45°	285.7	302.9	353.9	422.8	488.7
47.5°	217.4	236.1	280.8	343.2	403.2
50°	176.9	195.7	239.8	294.7	352.4
52.5°	144.5	162.6	202.4	254.1	307.0
55°	102.6	119.9	154.7	198.7	244.4
57.5°	70.9	85.8	117.0	153.7	189.5
60°	51.3	65.6	95.0	124.8	154.0
62.5°	34.2	47.2	76.0	98.8	118.4
65°	11.5	22.0	49.0	59.1	65.9
67.5°	5.8	7.0	25.7	27.2	29.4
70°	4.6	4.6	12.3	13.1	15.3
72.5°	3.4	3.4	4.9	6.3	6.7
75°	1.5	1.5	0.8	0.0	0.0
77.5°	0.8	0.8	0.6	0.0	0.0
80°	0.8	0.8	0.0	0.0	0.0
82.5°	0.2	0.2	0.0	0.0	0.0
85°	0.0	0.0	0.0	0.0	0.0
87.5°	0.0	0.0	0.0	0.0	0.0
90°	0.0	0.0	0.0	0.0	0.0
92.5°	8.1	66.6	156.9	76.3	51.7
95°	24.3	123.1	421.4	274.0	192.0
97.5°	43.1	136.3	555.0	534.7	459.0
100°	57.6	144.6	628.6	663.6	601.3
102.5°	71.4	152.0	677.1	770.9	733.9
105°	95.0	164.2	714.5	924.5	912.6
107.5°	118.2	178.5	692.5	1047.7	1075.5
110°	134.4	190.7	656.9	1100.8	1153.1

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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	150.6	203.0	625.4	1113.7	1203.3
115°	173.8	222.3	574.0	1088.3	1213.8
117.5°	196.9	242.5	543.9	1029.8	1176.8
120°	212.2	254.7	524.5	983.8	1138.0
122.5°	228.4	267.7	512.4	936.9	1088.7
125°	247.6	285.2	498.2	865.5	1016.7
127.5°	266.6	302.0	488.3	805.1	937.9
130°	277.9	312.5	485.1	763.0	893.4
132.5°	288.4	324.6	480.3	732.6	843.3
135°	304.2	339.8	478.0	682.5	785.3
137.5°	319.2	354.9	471.0	648.6	726.0
140°	330.5	363.1	471.0	624.2	695.3
142.5°	341.8	374.4	466.9	602.9	663.0
145°	359.8	386.5	468.9	580.1	625.6
147.5°	376.6	402.5	467.7	553.9	591.4
150°	387.1	409.8	471.0	542.4	572.0
152.5°	398.4	420.3	470.2	530.2	556.7
155°	412.3	430.1	475.0	513.8	532.6
157.5°	429.1	444.3	474.0	507.6	518.7
160°	435.6	448.4	478.0	499.4	507.3
162.5°	446.1	457.4	476.4	496.9	501.7
165°	455.8	462.7	481.1	488.3	495.2
167.5°	467.7	472.3	479.9	487.7	487.9
170°	471.0	473.9	483.1	482.2	487.1
172.5°	476.6	478.8	480.7	482.8	479.9
175°	482.1	480.1	482.1	478.0	477.0
177.5°	481.1	481.1	479.4	477.7	473.8
180°	477.0	477.0	477.0	477.0	477.0

(END OF REPORT)