

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: P518531

Luminaire Tested: **SQ4-BB-075U-075D-935-1D-UNV-STD-W-12**

Issue Date: 4/29/2021

Test Information

Test Method: LM-79-2019
Report Number: P518531
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-12
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

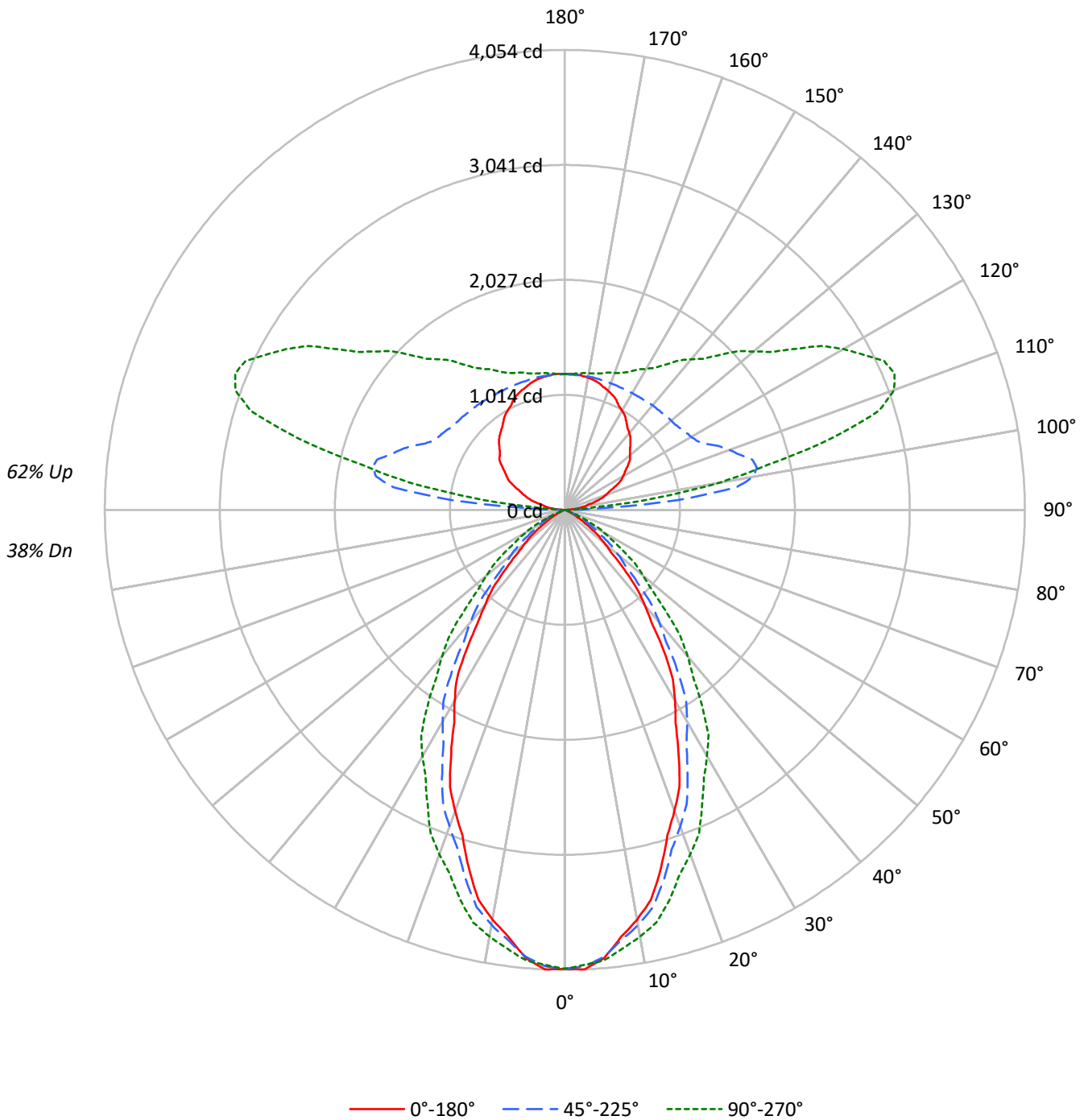
Lumens per Lamp: N/A
Luminaire Lumens: 12632.3 lumens
Efficiency: N/A
Efficacy: 94.7 lumens/watt
Spacing Criteria (0/90/45): 0.85 / 0.97 / 0.97
Luminous Opening: Rectangular (W 0.29' x L: 12' x H: 0')
CIE Type: Semi-Indirect

Input Watts (W): 133.4
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°	12440	12440	12440
5°	12240	12210	12300
10°	11453	11605	11929
15°	10412	10742	11340
20°	9242	9722	10574
25°	8048	8686	9715
30°	6894	7651	8902
35°	5716	6495	7920
40°	4392	5193	6749
45°	3175	3932	5430
50°	2163	2930	4307
55°	1406	2120	3347
60°	806	1493	2420
65°	214	911	1225
70°	105	281	352
75°	46	24	0
80°	35	0	0
85°	0	0	0



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	369.2	2.9
10°-20°	944.0	7.5
20°-30°	1181.8	9.4
30°-40°	1091.6	8.6
40°-50°	733.5	5.8
50°-60°	378.9	3.0
60°-70°	118.7	0.9
70°-80°	7.5	0.1
80°-90°	3.2	0.0
90°-100°	565.0	4.5
100°-110°	1554.4	12.3
110°-120°	1604.4	12.7
120°-130°	1285.5	10.2
130°-140°	1009.6	8.0
140°-150°	773.7	6.1
150°-160°	556.3	4.4
160°-170°	340.2	2.7
170°-180°	114.7	0.9
0°-30°	2495.0	19.8
0°-40°	3586.7	28.4
0°-60°	4699.1	37.2
0°-90°	4828.4	38.2
90°-120°	3723.8	29.5
90°-150°	6792.7	53.8
90°-180°	7804.0	61.8
0°-180°	12632.3	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	4045	4045	4045	4045	4045	
5°	3965	3925	3955	3969	3984	368
15°	3270	3259	3374	3487	3562	911
25°	2372	2391	2560	2735	2863	1087
35°	1522	1561	1730	1934	2110	943
45°	730	774	904	1080	1248	573
55°	262	306	395	508	624	245
65°	29	56	125	151	168	50
75°	4	4	2	0	0	6
85°	0	0	0	0	0	0
90°	2	10	18	23	23	6
95°	84	308	999	427	273	89
105°	278	427	1713	2608	2434	293
115°	492	599	1374	2736	3104	485
125°	678	773	1246	2108	2470	605
135°	818	908	1211	1705	1929	631
145°	946	1010	1193	1453	1565	593
155°	1070	1105	1185	1306	1343	492
165°	1157	1172	1190	1239	1246	326
175°	1198	1200	1193	1208	1206	114
180°	1198	1198	1198	1198	1198	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	4045.1	4045.1	4045.1	4045.1	4045.1
2.5°	4054.4	4016.2	4026.3	4026.0	4015.3
5°	3964.8	3924.6	3955.0	3969.1	3984.4
7.5°	3797.3	3765.9	3824.3	3868.1	3899.8
10°	3667.4	3640.6	3716.3	3776.0	3820.0
12.5°	3517.1	3496.4	3587.9	3669.8	3726.1
15°	3270.1	3258.6	3373.8	3487.1	3561.7
17.5°	3005.5	3005.1	3136.6	3277.2	3367.2
20°	2823.9	2829.6	2970.7	3125.7	3231.0
22.5°	2642.3	2655.7	2806.3	2967.9	3088.5
25°	2371.8	2391.0	2559.7	2734.8	2863.0
27.5°	2112.0	2139.9	2317.4	2499.5	2655.6
30°	1941.3	1973.8	2154.6	2346.1	2506.9
32.5°	1773.8	1812.4	1988.7	2191.2	2355.0
35°	1522.5	1560.8	1730.0	1933.6	2109.6
37.5°	1263.0	1300.5	1465.8	1666.2	1856.4
40°	1093.9	1136.0	1293.6	1487.8	1681.0
42.5°	940.5	982.6	1130.7	1321.6	1504.1
45°	729.9	774.0	904.1	1080.2	1248.5
47.5°	555.4	603.2	717.4	876.7	1030.1
50°	452.1	499.9	612.5	752.9	900.2
52.5°	369.1	415.4	517.0	649.3	784.4
55°	262.2	306.2	395.3	507.6	624.3
57.5°	181.2	219.1	299.0	392.7	484.2
60°	131.1	167.5	242.7	318.7	393.4
62.5°	87.3	120.6	194.1	252.4	302.5
65°	29.4	56.1	125.2	151.1	168.3
67.5°	14.9	17.9	65.8	69.4	75.1
70°	11.7	11.7	31.3	33.4	39.1
72.5°	8.6	8.6	12.5	16.1	17.2
75°	3.9	3.9	2.0	0.0	0.0
77.5°	2.0	2.0	1.6	0.0	0.0
80°	2.0	2.0	0.0	0.0	0.0
82.5°	0.4	0.4	0.0	0.0	0.0
85°	0.0	0.0	0.0	0.0	0.0
87.5°	0.5	2.0	3.6	4.6	4.6
90°	2.5	10.0	17.8	22.9	22.9
92.5°	35.2	150.3	260.5	100.0	82.1
95°	84.1	308.4	999.1	427.2	272.7
97.5°	137.1	342.0	1524.6	1174.7	828.8
100°	175.9	362.8	1689.8	1705.6	1391.6
102.5°	212.6	387.5	1732.6	2116.0	1827.9
105°	277.8	427.3	1712.7	2608.5	2434.0
107.5°	340.0	476.6	1615.4	2849.6	2901.5
110°	384.9	509.5	1542.0	2909.6	3089.0



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	425.6	546.3	1468.6	2871.0	3144.1
115°	491.9	599.1	1373.8	2735.5	3104.3
117.5°	555.1	653.8	1313.6	2545.5	2962.6
120°	593.9	688.6	1287.1	2403.0	2834.2
122.5°	628.5	723.2	1268.8	2278.2	2687.4
125°	678.0	772.7	1246.3	2108.4	2469.7
127.5°	724.9	815.1	1231.5	1966.7	2283.7
130°	749.3	841.5	1223.4	1882.4	2171.5
132.5°	777.9	870.1	1217.3	1808.4	2069.6
135°	818.1	907.9	1210.6	1705.1	1929.4
137.5°	855.9	939.1	1205.0	1621.6	1806.5
140°	884.4	961.7	1203.0	1566.2	1733.1
142.5°	908.9	980.1	1198.9	1516.7	1659.7
145°	945.6	1010.4	1192.8	1452.8	1564.9
147.5°	984.8	1040.6	1189.7	1396.2	1485.9
150°	1009.3	1059.1	1187.7	1365.2	1434.9
152.5°	1031.7	1077.6	1185.7	1338.4	1396.2
155°	1070.5	1105.4	1185.2	1305.8	1343.2
157.5°	1098.5	1126.9	1185.2	1279.0	1304.9
160°	1118.9	1141.3	1185.2	1264.6	1284.6
162.5°	1135.2	1153.6	1187.2	1252.3	1268.2
165°	1157.1	1172.1	1190.3	1238.8	1246.3
167.5°	1172.4	1183.9	1192.8	1227.5	1229.5
170°	1182.6	1190.1	1192.8	1223.4	1223.4
172.5°	1190.8	1194.3	1192.8	1217.2	1215.2
175°	1197.9	1200.4	1192.8	1208.0	1205.5
177.5°	1199.9	1199.9	1191.8	1203.9	1199.9
180°	1197.9	1197.9	1197.9	1197.9	1197.9

(END OF REPORT)