

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: P518567

Luminaire Tested: **SQ4-BB-075U-125D-835-1D-UNV-STD-W-12**

Issue Date: 4/29/2021

Test Information

Test Method: LM-79-2019
Report Number: P518567
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-125D-835-1D-UNV-STD-W-12
Description: CORELITE SQ4 SUSPENDED LED LUMINAIRE WITH BLACK BAFFLE
DOWNLIGHT 1250 LUMENS PER FOOT
UPLIGHT 750 LUMENS PER FOOT
Light Source: 3500K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

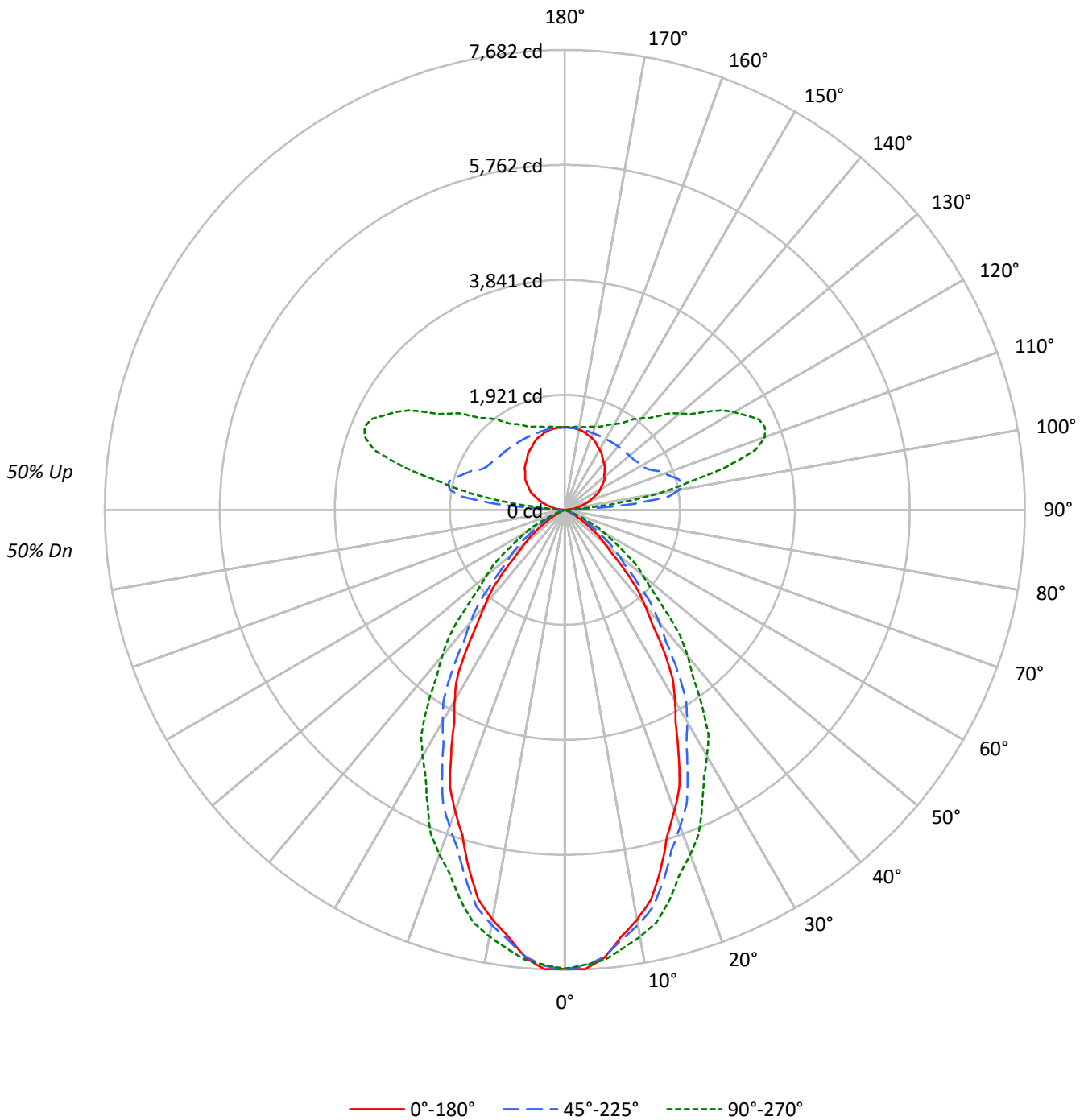
Lumens per Lamp: N/A
Luminaire Lumens: 18127.7 lumens
Efficiency: N/A
Efficacy: 93.1 lumens/watt
Spacing Criteria (0/90/45): 0.85 / 0.97 / 0.97
Luminous Opening: Rectangular (W 0.29' x L: 12' x H: 0')
CIE Type: General Diffuse

Input Watts (W): 194.8
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	107	107	107	107	99	99	99	99	84	84	84	69	69	69	57	57	57	50
1	100	96	93	90	92	89	86	84	76	74	72	64	63	61	53	52	51	46
2	92	86	81	77	85	80	76	72	69	66	63	58	56	54	49	47	46	42
3	85	77	71	66	79	72	67	62	62	58	55	53	51	48	45	43	41	38
4	79	70	63	58	73	65	59	55	57	52	49	49	46	43	41	39	37	34
5	73	63	56	51	68	59	53	48	52	47	43	45	41	39	38	36	34	31
6	68	58	50	45	63	54	48	43	47	43	39	41	38	35	36	33	31	28
7	64	53	46	41	59	50	43	39	44	39	35	38	34	32	33	30	28	26
8	60	48	41	37	55	46	39	35	40	35	32	35	32	29	31	28	26	24
9	56	45	38	33	52	42	36	32	37	33	29	33	29	27	29	26	24	22
10	52	41	35	30	49	39	33	29	35	30	27	31	27	25	27	24	22	20

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	23571	23571	23571
5°	23192	23134	23306
10°	21700	21989	22603
15°	19727	20353	21486
20°	17511	18421	20035
25°	15250	16458	18408
30°	13062	14497	16868
35°	10831	12306	15007
40°	8321	9840	12787
45°	6015	7451	10289
50°	4098	5553	8161
55°	2664	4016	6342
60°	1528	2828	4584
65°	405	1727	2321
70°	200	533	667
75°	88	44	0
80°	66	0	0
85°	0	0	0



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	699.5	3.9
10°-20°	1788.7	9.9
20°-30°	2239.3	12.4
30°-40°	2068.4	11.4
40°-50°	1389.8	7.7
50°-60°	717.9	4.0
60°-70°	224.8	1.2
70°-80°	14.2	0.1
80°-90°	3.8	0.0
90°-100°	650.2	3.6
100°-110°	1789.0	9.9
110°-120°	1846.5	10.2
120°-130°	1479.4	8.2
130°-140°	1162.0	6.4
140°-150°	890.5	4.9
150°-160°	640.2	3.5
160°-170°	391.5	2.2
170°-180°	132.0	0.7
0°-30°	4727.5	26.1
0°-40°	6795.8	37.5
0°-60°	8903.5	49.1
0°-90°	9146.4	50.5
90°-120°	4285.7	23.6
90°-150°	7817.7	43.1
90°-180°	8981.0	49.5
0°-180°	18127.7	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	7664	7664	7664	7664	7664	
5°	7512	7436	7494	7520	7549	696
15°	6196	6174	6392	6607	6748	1726
25°	4494	4530	4850	5182	5425	2060
35°	2885	2957	3278	3664	3997	1787
45°	1383	1466	1713	2047	2366	1086
55°	497	580	749	962	1183	464
65°	56	106	237	286	319	94
75°	7	7	4	0	0	11
85°	0	0	0	0	0	1
90°	3	12	20	26	26	6
95°	97	355	1150	492	314	102
105°	320	492	1971	3002	2801	337
115°	566	690	1581	3148	3573	559
125°	780	889	1434	2426	2842	696
135°	942	1045	1393	1962	2220	727
145°	1088	1163	1373	1672	1801	682
155°	1232	1272	1364	1503	1546	566
165°	1332	1349	1370	1426	1434	375
175°	1379	1382	1373	1390	1387	131
180°	1379	1379	1379	1379	1379	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	7664.3	7664.3	7664.3	7664.3	7664.3
2.5°	7682.1	7609.6	7628.7	7628.3	7607.9
5°	7512.3	7436.1	7493.7	7520.4	7549.4
7.5°	7194.9	7135.4	7246.1	7329.0	7389.2
10°	6948.7	6897.9	7041.4	7154.5	7237.9
12.5°	6663.9	6624.8	6798.1	6953.3	7059.9
15°	6196.0	6174.2	6392.5	6607.1	6748.4
17.5°	5694.7	5693.9	5943.1	6209.5	6379.9
20°	5350.6	5361.4	5628.7	5922.4	6121.8
22.5°	5006.5	5031.8	5317.2	5623.5	5851.9
25°	4494.0	4530.3	4850.0	5181.8	5424.7
27.5°	4001.6	4054.5	4390.9	4735.8	5031.7
30°	3678.3	3739.9	4082.4	4445.3	4749.9
32.5°	3360.9	3434.1	3768.0	4151.8	4462.1
35°	2884.8	2957.3	3277.8	3663.6	3997.2
37.5°	2393.1	2464.2	2777.2	3157.0	3517.4
40°	2072.7	2152.5	2450.9	2818.9	3185.1
42.5°	1782.0	1861.8	2142.4	2504.0	2849.9
45°	1383.1	1466.4	1713.1	2046.6	2365.7
47.5°	1052.3	1143.0	1359.3	1661.1	1951.9
50°	856.5	947.2	1160.6	1426.5	1705.7
52.5°	699.3	787.1	979.6	1230.2	1486.1
55°	496.9	580.3	749.0	961.7	1182.8
57.5°	343.4	415.1	566.6	744.0	917.3
60°	248.4	317.3	459.8	603.9	745.3
62.5°	165.4	228.5	367.8	478.3	573.2
65°	55.6	106.4	237.3	286.3	318.9
67.5°	28.2	34.0	124.6	131.5	142.4
70°	22.2	22.2	59.3	63.3	74.2
72.5°	16.3	16.3	23.7	30.5	32.6
75°	7.4	7.4	3.7	0.0	0.0
77.5°	3.7	3.7	3.0	0.0	0.0
80°	3.7	3.7	0.0	0.0	0.0
82.5°	0.7	0.7	0.0	0.0	0.0
85°	0.0	0.0	0.0	0.0	0.0
87.5°	0.6	2.3	4.1	5.3	5.3
90°	2.9	11.5	20.5	26.4	26.4
92.5°	40.5	173.0	299.8	115.1	94.5
95°	96.8	354.9	1149.9	491.7	313.9
97.5°	157.8	393.6	1754.7	1352.0	953.9
100°	202.4	417.5	1944.8	1963.0	1601.6
102.5°	244.6	446.0	1994.1	2435.3	2103.8
105°	319.7	491.8	1971.2	3002.1	2801.3
107.5°	391.3	548.5	1859.1	3279.6	3339.3
110°	442.9	586.3	1774.6	3348.7	3555.2



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	489.9	628.7	1690.2	3304.2	3618.5
115°	566.1	689.5	1581.0	3148.3	3572.8
117.5°	638.9	752.4	1511.8	2929.5	3409.7
120°	683.5	792.4	1481.3	2765.6	3261.8
122.5°	723.4	832.3	1460.2	2621.9	3092.9
125°	780.3	889.2	1434.4	2426.5	2842.4
127.5°	834.2	938.1	1417.4	2263.4	2628.2
130°	862.4	968.5	1408.0	2166.5	2499.2
132.5°	895.2	1001.4	1400.9	2081.3	2381.8
135°	941.6	1044.8	1393.3	1962.4	2220.5
137.5°	985.0	1080.8	1386.9	1866.3	2079.1
140°	1017.9	1106.8	1384.5	1802.5	1994.6
142.5°	1046.0	1128.0	1379.8	1745.5	1910.2
145°	1088.3	1162.8	1372.8	1672.0	1801.0
147.5°	1133.4	1197.7	1369.3	1606.9	1710.1
150°	1161.6	1218.9	1366.9	1571.1	1651.4
152.5°	1187.4	1240.2	1364.6	1540.3	1606.9
155°	1232.0	1272.1	1364.0	1502.8	1545.8
157.5°	1264.3	1296.9	1364.0	1472.0	1501.8
160°	1287.7	1313.5	1364.0	1455.4	1478.4
162.5°	1306.5	1327.7	1366.3	1441.3	1459.6
165°	1331.7	1348.9	1369.8	1425.8	1434.4
167.5°	1349.3	1362.5	1372.8	1412.7	1415.0
170°	1361.0	1369.7	1372.8	1408.0	1408.0
172.5°	1370.4	1374.5	1372.8	1400.9	1398.6
175°	1378.6	1381.5	1372.8	1390.3	1387.4
177.5°	1381.0	1381.0	1371.6	1385.6	1381.0
180°	1378.6	1378.6	1378.6	1378.6	1378.6

(END OF REPORT)