

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: P518964

Luminaire Tested: **SQ4-BB-150U-125D-935-1D-UNV-STD-W-4**

Issue Date: 4/29/2021

Test Information

Test Method: LM-79-2019
Report Number: P518964
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1910-536-25, 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-150U-125D-935-1D-UNV-STD-W-4
Description: CORELITE SQ4 SUSPENDED LED LUMINAIRE WITH BLACK BAFFLE
DOWNLIGHT 1250 LUMENS PER FOOT
UPLIGHT 1500 LUMENS PER FOOT
Light Source: 3500K CCT, 90 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

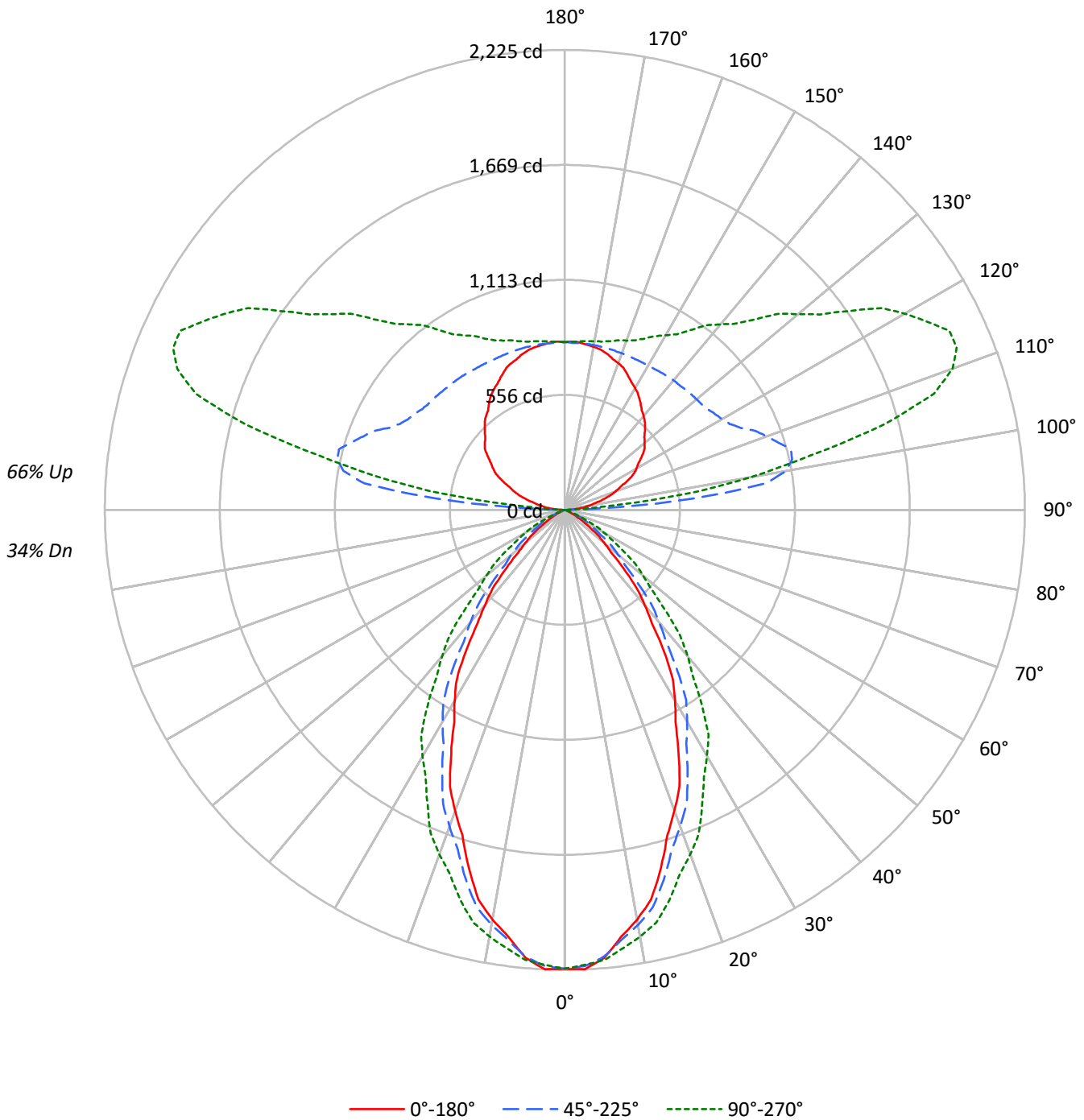
Lumens per Lamp: N/A
Luminaire Lumens: 7883.9 lumens
Efficiency: N/A
Efficacy: 94.9 lumens/watt
Spacing Criteria (0/90/45): 0.85 / 0.97 / 0.97
Luminous Opening: Rectangular (W 0.29' x L: 4' x H: 0')
CIE Type: Semi-Indirect

Input Watts (W): 83.1
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	103	103	103	103	93	93	93	93	74	74	74	57	57	57	41	41	41	34				
1	95	92	88	85	86	83	80	78	67	65	63	52	51	50	38	37	37	31				
2	88	81	76	72	79	74	69	66	60	57	54	47	45	43	35	34	33	28				
3	81	73	66	61	73	66	61	56	54	50	47	43	40	38	32	31	30	25				
4	75	65	58	53	67	59	53	49	49	45	41	39	36	34	30	28	27	23				
5	69	59	51	46	62	54	47	43	44	40	36	35	32	30	27	26	24	21				
6	64	53	46	40	58	49	42	38	40	36	32	33	29	27	25	23	22	19				
7	59	48	41	36	54	44	38	34	37	32	29	30	27	24	23	21	20	17				
8	55	44	37	32	50	41	34	30	34	29	26	28	25	22	22	20	18	16				
9	52	40	34	29	47	37	31	27	31	27	24	26	23	20	20	18	17	15				
10	48	37	31	26	44	34	29	25	29	25	22	24	21	19	19	17	16	14				

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	20480	20480	20480
5°	20151	20101	20250
10°	18855	19106	19639
15°	17140	17685	18670
20°	15215	16006	17409
25°	13250	14300	15995
30°	11349	12597	14656
35°	9410	10693	13039
40°	7230	8550	11111
45°	5227	6474	8940
50°	3561	4824	7091
55°	2315	3489	5511
60°	1329	2458	3984
65°	351	1500	2017
70°	173	464	580
75°	75	39	0
80°	58	0	0
85°	0	0	0



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	202.6	2.6
10°-20°	518.1	6.6
20°-30°	648.6	8.2
30°-40°	599.1	7.6
40°-50°	402.5	5.1
50°-60°	207.9	2.6
60°-70°	65.1	0.8
70°-80°	4.1	0.1
80°-90°	1.8	0.0
90°-100°	377.3	4.8
100°-110°	1020.1	12.9
110°-120°	1072.5	13.6
120°-130°	871.2	11.0
130°-140°	683.3	8.7
140°-150°	524.5	6.7
150°-160°	377.2	4.8
160°-170°	230.4	2.9
170°-180°	77.7	1.0
0°-30°	1369.2	17.4
0°-40°	1968.3	25.0
0°-60°	2578.7	32.7
0°-90°	2649.7	33.6
90°-120°	2469.9	31.3
90°-150°	4548.9	57.7
90°-180°	5234.0	66.4
0°-180°	7883.9	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2220	2220	2220	2220	2220	
5°	2176	2154	2170	2178	2186	202
15°	1794	1788	1852	1914	1955	500
25°	1302	1312	1405	1501	1571	597
35°	836	856	949	1061	1158	518
45°	401	425	496	593	685	315
55°	144	168	217	278	343	134
65°	16	31	69	83	92	27
75°	2	2	1	0	0	3
85°	0	0	0	0	0	0
90°	2	5	11	12	11	4
95°	58	206	627	325	193	61
105°	190	293	1132	1669	1601	200
115°	334	408	938	1817	2051	330
125°	457	524	846	1428	1677	407
135°	548	613	823	1153	1305	423
145°	637	685	812	987	1062	399
155°	719	747	805	885	914	332
165°	783	791	808	840	844	221
175°	813	812	809	820	818	77
180°	812	812	812	812	812	

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CATALOG NUMBER: SQ4-BB-150U-125D-935-1D-UNV-STD-W-4

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2219.8	2219.8	2219.8	2219.8	2219.8
2.5°	2225.0	2204.0	2209.5	2209.4	2203.5
5°	2175.8	2153.7	2170.4	2178.1	2186.5
7.5°	2083.9	2066.6	2098.7	2122.7	2140.1
10°	2012.6	1997.9	2039.4	2072.2	2096.3
12.5°	1930.1	1918.7	1968.9	2013.9	2044.8
15°	1794.5	1788.2	1851.5	1913.6	1954.6
17.5°	1649.3	1649.1	1721.3	1798.5	1847.8
20°	1549.7	1552.8	1630.2	1715.3	1773.1
22.5°	1450.0	1457.4	1540.0	1628.7	1694.9
25°	1301.6	1312.1	1404.7	1500.8	1571.2
27.5°	1159.0	1174.3	1271.8	1371.6	1457.3
30°	1065.3	1083.2	1182.4	1287.5	1375.7
32.5°	973.4	994.6	1091.3	1202.5	1292.4
35°	835.5	856.5	949.4	1061.1	1157.7
37.5°	693.1	713.7	804.4	914.4	1018.7
40°	600.3	623.4	709.9	816.5	922.5
42.5°	516.1	539.2	620.5	725.2	825.4
45°	400.6	424.7	496.2	592.8	685.2
47.5°	304.8	331.0	393.7	481.1	565.3
50°	248.1	274.3	336.1	413.2	494.0
52.5°	202.5	228.0	283.7	356.3	430.4
55°	143.9	168.1	216.9	278.5	342.6
57.5°	99.4	120.2	164.1	215.5	265.7
60°	72.0	91.9	133.2	174.9	215.9
62.5°	47.9	66.2	106.5	138.5	166.0
65°	16.1	30.8	68.7	82.9	92.4
67.5°	8.2	9.8	36.1	38.1	41.2
70°	6.4	6.4	17.2	18.3	21.5
72.5°	4.7	4.7	6.9	8.8	9.5
75°	2.1	2.1	1.1	0.0	0.0
77.5°	1.1	1.1	0.9	0.0	0.0
80°	1.1	1.1	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°	0.3	1.0	2.3	2.4	2.3
90°	1.7	5.2	11.4	12.2	11.4
92.5°	24.8	90.4	178.4	77.5	56.1
95°	58.5	205.5	627.4	324.7	193.1
97.5°	94.0	235.7	978.0	809.4	594.4
100°	120.6	247.9	1087.1	1133.7	916.7
102.5°	145.1	264.9	1125.6	1379.7	1217.3
105°	189.6	293.0	1131.7	1669.3	1600.9
107.5°	230.9	325.2	1082.2	1850.0	1872.7
110°	263.0	348.5	1038.2	1898.5	1995.1

TEST NUMBER: P518964

CATALOG NUMBER: SQ4-BB-150U-125D-935-1D-UNV-STD-W-4

CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	291.7	371.7	997.6	1888.8	2051.0
115°	333.8	408.2	938.5	1816.9	2051.0
117.5°	375.1	444.8	899.6	1706.9	1972.3
120°	400.2	468.6	876.5	1628.1	1898.9
122.5°	424.0	491.0	862.5	1543.5	1816.4
125°	457.0	523.7	845.9	1427.5	1677.0
127.5°	487.4	552.9	836.1	1332.8	1552.2
130°	504.2	571.7	831.9	1274.2	1472.5
132.5°	521.7	588.5	827.7	1221.5	1404.0
135°	547.9	612.9	823.2	1152.6	1304.7
137.5°	574.3	635.7	819.3	1096.7	1220.6
140°	592.5	649.7	817.9	1060.8	1171.0
142.5°	610.0	663.8	815.2	1028.3	1124.9
145°	637.1	684.9	811.8	986.6	1061.8
147.5°	661.7	704.1	808.0	948.8	1006.5
150°	679.9	717.5	806.6	928.2	974.4
152.5°	696.7	729.5	805.9	909.2	947.1
155°	719.2	747.4	804.8	885.0	914.1
157.5°	742.6	762.3	805.0	868.2	887.3
160°	755.9	772.1	805.7	857.6	871.3
162.5°	766.4	779.9	806.4	849.1	859.4
165°	783.0	790.7	808.3	839.9	844.2
167.5°	794.4	799.7	808.5	832.0	834.0
170°	801.3	803.9	809.2	828.4	828.4
172.5°	806.9	807.4	809.2	824.2	823.5
175°	812.7	811.8	809.2	819.7	817.9
177.5°	814.6	812.6	809.0	816.0	813.9
180°	811.8	811.8	811.8	811.8	811.8

(END OF REPORT)