

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: P518960

Luminaire Tested: **SQ4-BB-150U-125D-930-1D-UNV-STD-W-4**

Issue Date: 4/29/2021

**Test Information**

Test Method: LM-79-2019  
Report Number: P518960  
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-930-1D-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: 3000K CCT, 90 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

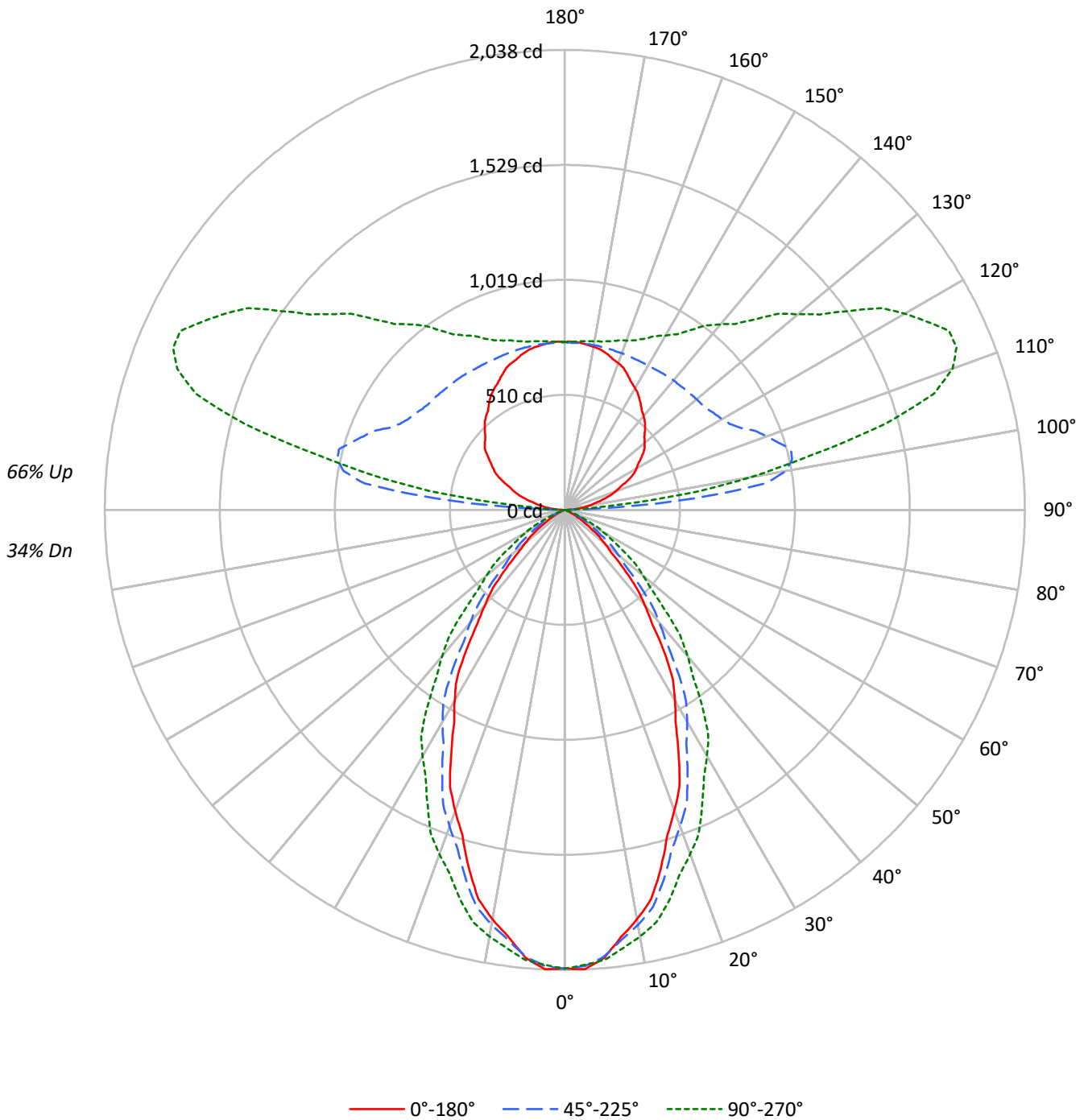
Lumens per Lamp: N/A  
Luminaire Lumens: 7220.3 lumens  
Efficiency: N/A  
Efficacy: 86.9 lumens/watt  
Spacing Criteria (0/90/45): 0.85 / 0.97 / 0.97  
Luminous Opening: Rectangular (W 0.29' x L: 4' x H: 0')  
CIE Type: Semi-Indirect

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



TEST NUMBER: P518960  
CATALOG NUMBER: SQ4-BB-150U-125D-930-1D-UNV-STD-W-4

### Luminous Intensity Polar Plot





TEST NUMBER: P518960

CATALOG NUMBER: SQ4-BB-150U-125D-930-1D-UNV-STD-W-4

**COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:**

RF	20					20					20					20				
RC	80					70					50					30				
RW	70	50	30	10	70	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°	18757	18757	18757
5°	18454	18409	18546
10°	17267	17498	17987
15°	15698	16196	17097
20°	13934	14659	15943
25°	12135	13097	14648
30°	10395	11537	13422
35°	8619	9792	11942
40°	6622	7830	10176
45°	4787	5929	8188
50°	3261	4418	6493
55°	2120	3196	5046
60°	1216	2251	3648
65°	323	1373	1847
70°	159	424	531
75°	71	36	0
80°	53	0	0
85°	0	0	0



TEST NUMBER: P518960

CATALOG NUMBER: SQ4-BB-150U-125D-930-1D-UNV-STD-W-4

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	185.5	2.6
10°-20°	474.5	6.6
20°-30°	594.0	8.2
30°-40°	548.6	7.6
40°-50°	368.7	5.1
50°-60°	190.4	2.6
60°-70°	59.6	0.8
70°-80°	3.8	0.1
80°-90°	1.6	0.0
90°-100°	345.5	4.8
100°-110°	934.2	12.9
110°-120°	982.2	13.6
120°-130°	797.8	11.0
130°-140°	625.8	8.7
140°-150°	480.3	6.7
150°-160°	345.4	4.8
160°-170°	211.0	2.9
170°-180°	71.1	1.0
0°-30°	1254.0	17.4
0°-40°	1802.6	25.0
0°-60°	2361.7	32.7
0°-90°	2426.7	33.6
90°-120°	2262.0	31.3
90°-150°	4166.0	57.7
90°-180°	4794.0	66.4
0°-180°	7220.3	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	2033	2033	2033	2033	2033	
5°	1993	1972	1988	1995	2002	185
15°	1644	1638	1696	1752	1790	458
25°	1192	1202	1286	1374	1439	546
35°	765	784	869	972	1060	474
45°	367	389	454	543	628	288
55°	132	154	199	255	314	123
65°	15	28	63	76	85	25
75°	2	2	1	0	0	3
85°	0	0	0	0	0	0
90°	2	5	10	11	10	4
95°	54	188	575	297	177	56
105°	174	268	1036	1529	1466	183
115°	306	374	860	1664	1878	302
125°	419	480	775	1307	1536	373
135°	502	561	754	1056	1195	388
145°	583	627	744	904	972	365
155°	659	684	737	810	837	304
165°	717	724	740	769	773	202
175°	744	744	741	751	749	71
180°	744	744	744	744	744	

TEST NUMBER: P518960

CATALOG NUMBER: SQ4-BB-150U-125D-930-1D-UNV-STD-W-4

**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	2033.0	2033.0	2033.0	2033.0	2033.0
2.5°	2037.7	2018.5	2023.5	2023.4	2018.0
5°	1992.6	1972.5	1987.7	1994.8	2002.5
7.5°	1908.5	1892.7	1922.0	1944.0	1960.0
10°	1843.1	1829.7	1867.7	1897.7	1919.9
12.5°	1767.6	1757.2	1803.2	1844.4	1872.7
15°	1643.5	1637.7	1695.6	1752.5	1790.0
17.5°	1510.5	1510.3	1576.4	1647.1	1692.3
20°	1419.2	1422.1	1493.0	1570.9	1623.8
22.5°	1328.0	1334.7	1410.4	1491.6	1552.2
25°	1192.0	1201.7	1286.5	1374.5	1438.9
27.5°	1061.4	1075.5	1164.7	1256.2	1334.7
30°	975.7	992.0	1082.9	1179.1	1259.9
32.5°	891.5	910.9	999.5	1101.3	1183.6
35°	765.2	784.4	869.4	971.8	1060.3
37.5°	634.8	653.6	736.7	837.4	933.0
40°	549.8	571.0	650.1	747.7	844.9
42.5°	472.7	493.8	568.3	664.2	755.9
45°	366.9	389.0	454.4	542.9	627.5
47.5°	279.1	303.2	360.6	440.6	517.7
50°	227.2	251.2	307.8	378.4	452.4
52.5°	185.5	208.8	259.9	326.3	394.2
55°	131.8	153.9	198.7	255.1	313.7
57.5°	91.1	110.1	150.3	197.4	243.3
60°	65.9	84.2	122.0	160.2	197.7
62.5°	43.9	60.6	97.6	126.9	152.1
65°	14.8	28.2	62.9	75.9	84.6
67.5°	7.5	9.0	33.0	34.9	37.8
70°	5.9	5.9	15.7	16.8	19.7
72.5°	4.3	4.3	6.3	8.1	8.7
75°	2.0	2.0	1.0	0.0	0.0
77.5°	1.0	1.0	0.8	0.0	0.0
80°	1.0	1.0	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	0.9	2.1	2.2	2.1
90°	1.6	4.7	10.4	11.2	10.4
92.5°	22.7	82.8	163.4	70.9	51.4
95°	53.6	188.2	574.6	297.4	176.9
97.5°	86.1	215.9	895.7	741.3	544.4
100°	110.4	227.0	995.6	1038.3	839.5
102.5°	132.9	242.6	1030.8	1263.5	1114.8
105°	173.7	268.4	1036.4	1528.8	1466.2
107.5°	211.4	297.8	991.1	1694.3	1715.1
110°	240.9	319.1	950.8	1738.7	1827.1

TEST NUMBER: P518960

CATALOG NUMBER: SQ4-BB-150U-125D-930-1D-UNV-STD-W-4

**CANDELA DISTRIBUTION (continued):**

	0°	22.5°	45°	67.5°	90°
112.5°	267.1	340.4	913.6	1729.8	1878.3
115°	305.7	373.8	859.5	1663.9	1878.3
117.5°	343.5	407.4	823.8	1563.3	1806.3
120°	366.5	429.1	802.7	1491.0	1739.1
122.5°	388.3	449.7	789.9	1413.6	1663.5
125°	418.6	479.6	774.7	1307.3	1535.8
127.5°	446.4	506.4	765.7	1220.6	1421.5
130°	461.8	523.6	761.9	1167.0	1348.5
132.5°	477.8	539.0	758.1	1118.6	1285.8
135°	501.8	561.3	753.9	1055.6	1194.9
137.5°	526.0	582.2	750.4	1004.4	1117.9
140°	542.6	595.0	749.1	971.5	1072.4
142.5°	558.6	607.9	746.5	941.7	1030.2
145°	583.4	627.3	743.5	903.5	972.4
147.5°	606.0	644.8	740.0	868.9	921.8
150°	622.6	657.1	738.7	850.1	892.4
152.5°	638.0	668.1	738.1	832.6	867.4
155°	658.7	684.5	737.1	810.5	837.1
157.5°	680.1	698.1	737.3	795.1	812.6
160°	692.3	707.1	737.9	785.4	797.9
162.5°	701.9	714.2	738.5	777.6	787.0
165°	717.1	724.1	740.3	769.2	773.1
167.5°	727.5	732.3	740.5	761.9	763.8
170°	733.9	736.2	741.1	758.7	758.7
172.5°	739.0	739.5	741.1	754.8	754.2
175°	744.3	743.5	741.1	750.7	749.1
177.5°	746.1	744.2	740.9	747.3	745.4
180°	743.5	743.5	743.5	743.5	743.5

(END OF REPORT)