

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: P518913

Luminaire Tested: **SQ4-BB-150U-075D-930-1D-UNV-STD-W-6**

Issue Date: 4/29/2021

Test Information

Test Method: LM-79-2019
Report Number: P518913
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-075D-930-1D-UNV-STD-W-6
Description: CORELITE SQ4 SUSPENDED LED LUMINAIRE WITH BLACK BAFFLE
DOWNLIGHT 750 LUMENS PER FOOT
UPLIGHT 1500 LUMENS PER FOOT
Light Source: 3000K CCT, 90 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

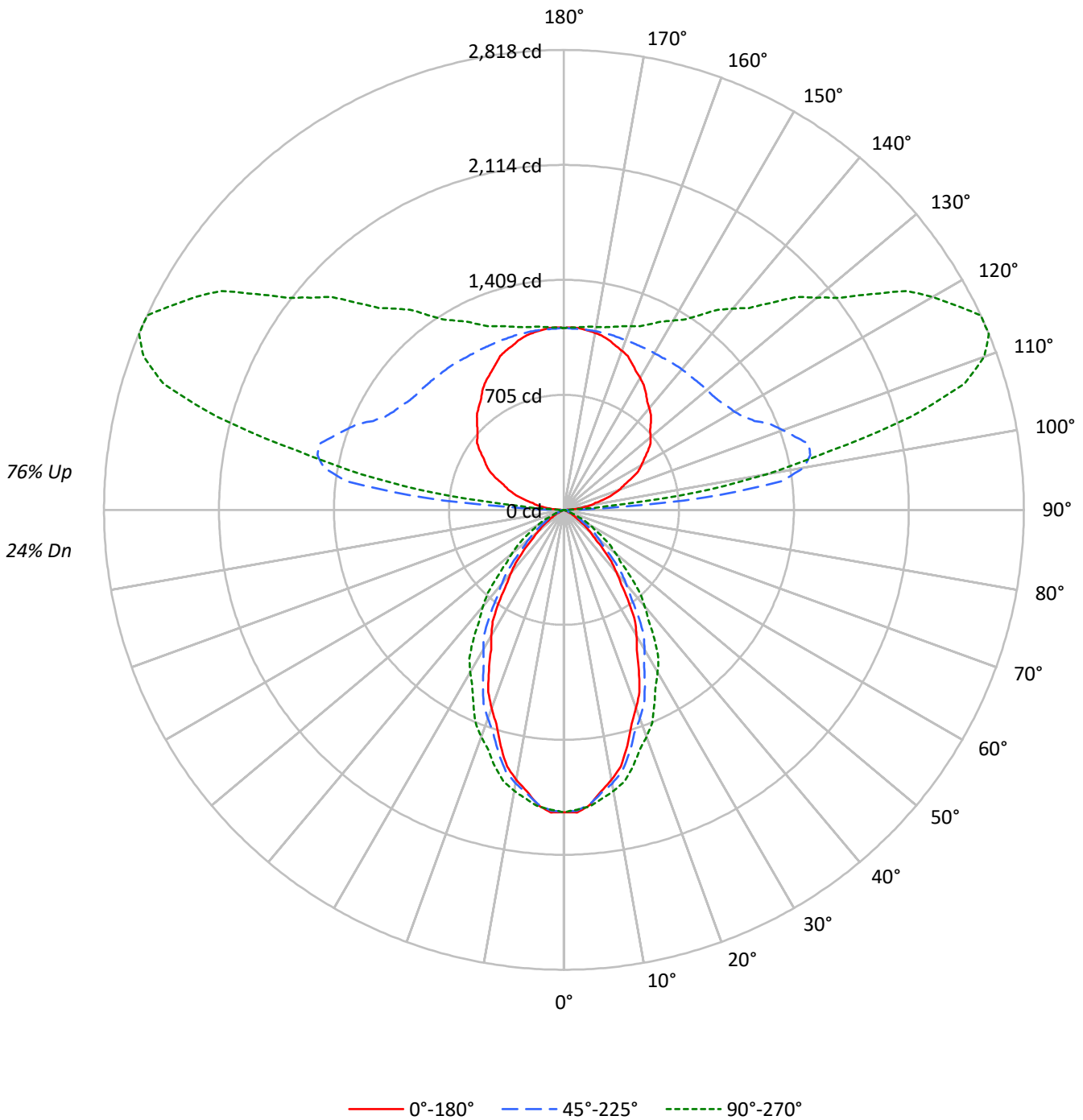
Lumens per Lamp: N/A
Luminaire Lumens: 9402.3 lumens
Efficiency: N/A
Efficacy: 96.1 lumens/watt
Spacing Criteria (0/90/45): 0.85 / 0.97 / 0.97
Luminous Opening: Rectangular (W 0.29' x L: 6' x H: 0')
CIE Type: Semi-Indirect

Input Watts (W): 97.8
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	101	101	101	101	90	90	90	90	69	69	69	49	49	49	32	32	32	24
1	93	89	85	82	82	79	76	74	61	59	58	45	44	43	29	29	28	21
2	85	79	73	69	76	70	66	62	55	52	49	40	38	37	27	26	25	19
3	78	70	63	58	69	63	57	53	49	45	42	36	34	32	25	23	23	17
4	72	62	55	50	64	56	50	45	44	40	37	33	30	28	23	21	20	16
5	66	56	48	43	59	50	44	39	40	35	32	30	27	25	21	19	18	14
6	61	50	43	38	54	45	39	35	36	32	28	27	24	22	19	18	16	13
7	57	45	38	33	50	41	35	31	33	28	25	25	22	20	18	16	15	12
8	53	41	34	30	47	37	31	27	30	26	23	23	20	18	16	15	14	11
9	49	38	31	26	44	34	28	24	28	23	20	21	18	16	15	14	13	10
10	46	35	28	24	41	32	26	22	26	21	18	20	17	15	14	13	12	10

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	11393	11393	11393
5°	11209	11182	11265
10°	10488	10628	10925
15°	9535	9838	10385
20°	8464	8904	9684
25°	7371	7955	8897
30°	6314	7007	8153
35°	5235	5948	7253
40°	4022	4756	6181
45°	2908	3601	4973
50°	1981	2684	3944
55°	1288	1941	3066
60°	738	1367	2216
65°	195	835	1122
70°	97	257	322
75°	43	21	0
80°	32	0	0
85°	0	0	0



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	169.0	1.8
10°-20°	432.3	4.6
20°-30°	541.2	5.8
30°-40°	499.9	5.3
40°-50°	335.9	3.6
50°-60°	173.5	1.8
60°-70°	54.3	0.6
70°-80°	3.4	0.0
80°-90°	2.4	0.0
90°-100°	518.3	5.5
100°-110°	1401.4	14.9
110°-120°	1473.3	15.7
120°-130°	1196.7	12.7
130°-140°	938.7	10.0
140°-150°	720.5	7.7
150°-160°	518.2	5.5
160°-170°	316.5	3.4
170°-180°	106.7	1.1
0°-30°	1142.5	12.2
0°-40°	1642.4	17.5
0°-60°	2151.8	22.9
0°-90°	2211.9	23.5
90°-120°	3393.0	36.1
90°-150°	6249.0	66.5
90°-180°	7190.0	76.5
0°-180°	9402.3	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1852	1852	1852	1852	1852	
5°	1816	1797	1811	1818	1824	168
15°	1497	1492	1545	1597	1631	417
25°	1086	1095	1172	1252	1311	498
35°	697	715	792	885	966	432
45°	334	354	414	495	572	263
55°	120	140	181	232	286	112
65°	13	26	57	69	77	23
75°	2	2	1	0	0	3
85°	0	0	0	0	0	0
90°	2	7	16	17	16	5
95°	80	282	862	446	265	84
105°	260	402	1555	2293	2199	274
115°	459	561	1289	2496	2818	453
125°	628	719	1162	1961	2304	560
135°	753	842	1131	1583	1792	582
145°	875	941	1115	1355	1459	547
155°	988	1027	1106	1216	1256	456
165°	1076	1086	1110	1154	1160	303
175°	1116	1115	1112	1126	1124	106
180°	1115	1115	1115	1115	1115	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1852.3	1852.3	1852.3	1852.3	1852.3
2.5°	1856.6	1839.1	1843.7	1843.6	1838.7
5°	1815.5	1797.1	1811.1	1817.5	1824.5
7.5°	1738.8	1724.5	1751.2	1771.2	1785.8
10°	1679.3	1667.1	1701.7	1729.1	1749.2
12.5°	1610.5	1601.0	1642.9	1680.5	1706.2
15°	1497.4	1492.2	1544.9	1596.8	1630.9
17.5°	1376.3	1376.1	1436.3	1500.7	1541.9
20°	1293.1	1295.7	1360.3	1431.3	1479.5
22.5°	1209.9	1216.1	1285.0	1359.1	1414.3
25°	1086.1	1094.9	1172.1	1252.3	1311.0
27.5°	967.1	979.9	1061.2	1144.5	1216.0
30°	889.0	903.8	986.6	1074.3	1147.9
32.5°	812.2	829.9	910.6	1003.4	1078.4
35°	697.2	714.7	792.2	885.4	966.0
37.5°	578.4	595.5	671.2	763.0	850.1
40°	500.9	520.2	592.3	681.3	769.8
42.5°	430.7	450.0	517.8	605.2	688.8
45°	334.3	354.4	414.0	494.6	571.7
47.5°	254.3	276.2	328.5	401.4	471.7
50°	207.0	228.9	280.5	344.7	412.2
52.5°	169.0	190.2	236.8	297.3	359.2
55°	120.1	140.2	181.0	232.4	285.9
57.5°	83.0	100.3	136.9	179.8	221.7
60°	60.0	76.7	111.1	145.9	180.1
62.5°	40.0	55.2	88.9	115.6	138.5
65°	13.4	25.7	57.4	69.2	77.1
67.5°	6.8	8.2	30.1	31.8	34.4
70°	5.4	5.4	14.3	15.3	17.9
72.5°	3.9	3.9	5.7	7.4	7.9
75°	1.8	1.8	0.9	0.0	0.0
77.5°	0.9	0.9	0.7	0.0	0.0
80°	0.9	0.9	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°	0.5	1.4	3.1	3.4	3.1
90°	2.4	7.1	15.6	16.8	15.6
92.5°	34.1	124.2	245.1	106.4	77.1
95°	80.4	282.3	861.9	446.1	265.3
97.5°	129.2	323.8	1343.6	1111.9	816.6
100°	165.7	340.6	1493.4	1557.4	1259.3
102.5°	199.3	363.8	1546.2	1895.3	1672.3
105°	260.5	402.5	1554.6	2293.2	2199.3
107.5°	317.2	446.8	1486.7	2541.4	2572.6
110°	361.3	478.7	1426.2	2608.0	2740.7



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	400.7	510.6	1370.5	2594.7	2817.5
115°	458.6	560.7	1289.3	2495.9	2817.5
117.5°	515.2	611.0	1235.8	2344.9	2709.5
120°	549.8	643.7	1204.1	2236.5	2608.6
122.5°	582.5	674.5	1184.9	2120.4	2495.3
125°	627.8	719.4	1162.1	1961.0	2303.7
127.5°	669.6	759.5	1148.6	1830.9	2132.3
130°	692.7	785.4	1142.9	1750.5	2022.8
132.5°	716.7	808.5	1137.1	1678.0	1928.7
135°	752.7	841.9	1130.8	1583.4	1792.3
137.5°	789.0	873.2	1125.6	1506.6	1676.8
140°	813.9	892.6	1123.6	1457.2	1608.6
142.5°	837.9	911.9	1119.8	1412.6	1545.3
145°	875.1	940.9	1115.2	1355.3	1458.6
147.5°	909.0	967.2	1110.0	1303.4	1382.7
150°	934.0	985.6	1108.0	1275.1	1338.5
152.5°	957.0	1002.1	1107.1	1249.0	1301.1
155°	988.0	1026.7	1105.6	1215.8	1255.7
157.5°	1020.2	1047.2	1105.9	1192.7	1219.0
160°	1038.4	1060.7	1106.8	1178.1	1196.9
162.5°	1052.8	1071.4	1107.8	1166.5	1180.5
165°	1075.6	1086.2	1110.4	1153.8	1159.7
167.5°	1091.2	1098.5	1110.7	1142.9	1145.7
170°	1100.8	1104.4	1111.6	1138.1	1138.1
172.5°	1108.5	1109.2	1111.6	1132.3	1131.3
175°	1116.4	1115.3	1111.6	1126.0	1123.6
177.5°	1119.1	1116.3	1111.4	1120.9	1118.1
180°	1115.2	1115.2	1115.2	1115.2	1115.2

(END OF REPORT)