

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: P518815

Luminaire Tested: **SQ4-BB-125U-075D-930-1D-UNV-STD-W-12**

Issue Date: 4/29/2021

Test Information

Test Method: LM-79-2019
Report Number: P518815
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1910-536-24, 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-125U-075D-930-1D-UNV-STD-W-12
Description: CORELITE SQ4 SUSPENDED LED LUMINAIRE WITH BLACK BAFFLE
DOWNLIGHT 750 LUMENS PER FOOT
UPLIGHT 1250 LUMENS PER FOOT
Light Source: 3000K CCT, 90 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

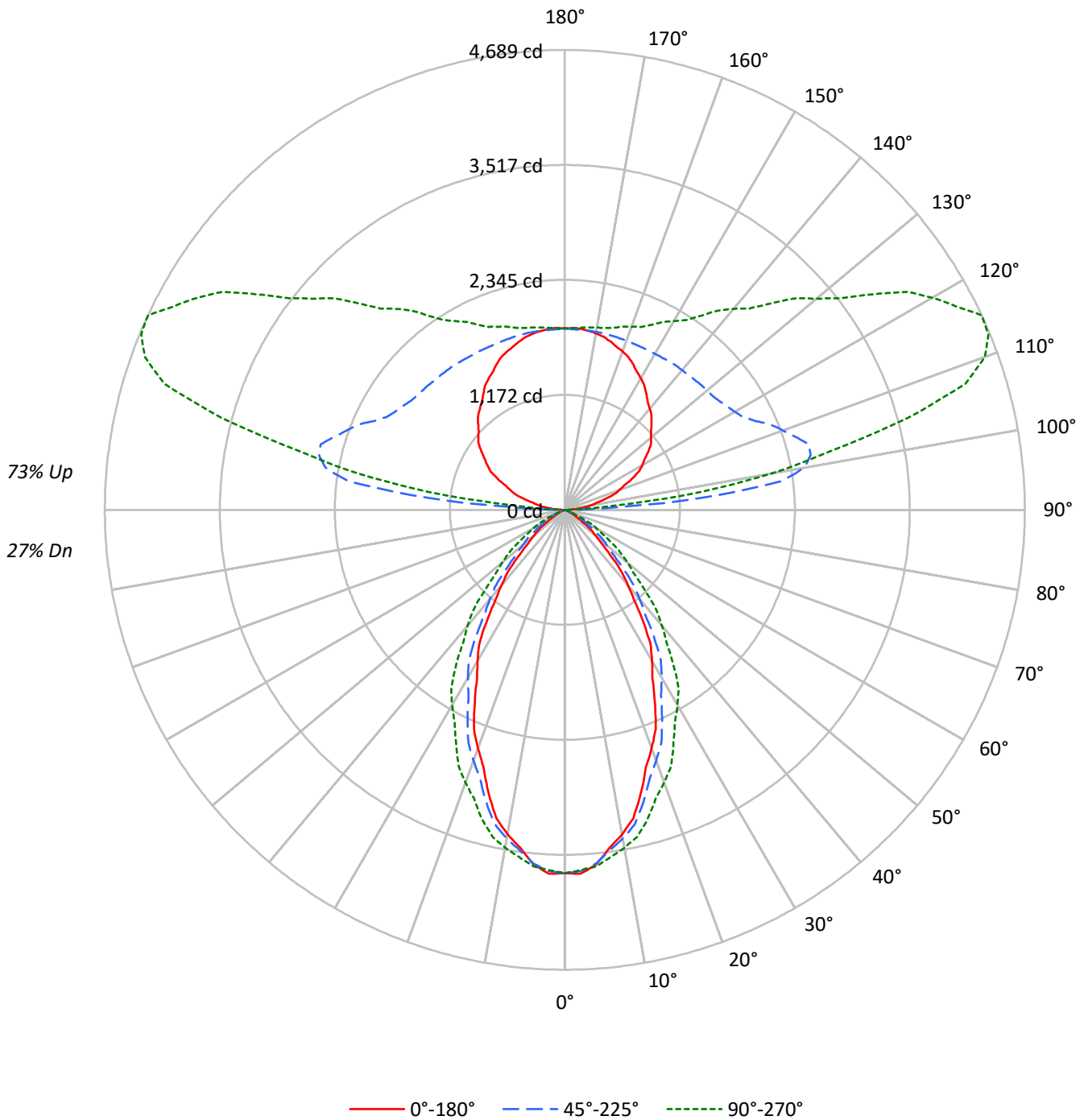
Lumens per Lamp: N/A
Luminaire Lumens: 16358.3 lumens
Efficiency: N/A
Efficacy: 94.9 lumens/watt
Spacing Criteria (0/90/45): 0.85 / 0.97 / 0.97
Luminous Opening: Rectangular (W 0.29' x L: 12' x H: 0')
CIE Type: Semi-Indirect

Input Watts (W): 172.4
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				
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	102	102	102	102	91	91	91	91	71	71	71	52	52	52	35	35	35	27		
1	94	90	86	83	84	81	78	75	63	61	60	47	46	45	32	32	31	25		
2	86	80	74	70	77	71	67	63	56	53	51	43	41	39	30	29	28	22		
3	79	71	64	59	71	64	58	54	51	47	44	39	36	34	27	26	25	20		
4	73	63	56	51	65	57	51	47	46	42	38	35	32	30	25	24	22	18		
5	67	57	49	44	60	51	45	41	41	37	34	32	29	27	23	21	20	17		
6	62	51	44	39	56	46	40	36	37	33	30	29	26	24	21	20	18	15		
7	58	46	39	34	52	42	36	32	34	30	27	27	24	22	20	18	17	14		
8	53	42	35	30	48	39	32	28	31	27	24	25	22	20	18	17	15	13		
9	50	39	32	27	45	35	29	25	29	25	22	23	20	18	17	15	14	12		
10	47	36	29	25	42	33	27	23	27	22	20	21	18	16	16	14	13	11		

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	11393	11393	11393
5°	11210	11182	11265
10°	10489	10629	10925
15°	9535	9838	10386
20°	8464	8904	9684
25°	7371	7955	8898
30°	6314	7008	8153
35°	5235	5948	7253
40°	4022	4756	6181
45°	2907	3601	4973
50°	1981	2684	3944
55°	1288	1941	3065
60°	739	1367	2216
65°	196	835	1121
70°	97	258	322
75°	43	21	0
80°	32	0	0
85°	0	0	0



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	338.1	2.1
10°-20°	864.6	5.3
20°-30°	1082.4	6.6
30°-40°	999.8	6.1
40°-50°	671.8	4.1
50°-60°	347.0	2.1
60°-70°	108.7	0.7
70°-80°	6.9	0.0
80°-90°	4.5	0.0
90°-100°	864.9	5.3
100°-110°	2329.7	14.2
110°-120°	2444.9	14.9
120°-130°	1984.0	12.1
130°-140°	1556.0	9.5
140°-150°	1194.6	7.3
150°-160°	858.9	5.3
160°-170°	524.8	3.2
170°-180°	177.0	1.1
0°-30°	2285.0	14.0
0°-40°	3284.8	20.1
0°-60°	4303.6	26.3
0°-90°	4423.6	27.0
90°-120°	5639.5	34.5
90°-150°	10374.1	63.4
90°-180°	11935.0	73.0
0°-180°	16358.3	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	3705	3705	3705	3705	3705	
5°	3631	3594	3622	3635	3649	337
15°	2995	2984	3090	3194	3262	834
25°	2172	2190	2344	2505	2622	996
35°	1394	1429	1584	1771	1932	864
45°	668	709	828	989	1144	525
55°	240	280	362	465	572	224
65°	27	51	115	138	154	45
75°	4	4	2	0	0	5
85°	0	0	0	0	0	0
90°	5	14	28	31	31	9
95°	132	470	1418	725	502	138
105°	431	670	2576	3855	3617	453
115°	761	931	2146	4146	4689	749
125°	1039	1193	1926	3256	3832	927
135°	1251	1396	1872	2627	2974	965
145°	1446	1559	1849	2246	2412	907
155°	1642	1701	1832	2015	2080	756
165°	1780	1801	1839	1912	1922	502
175°	1851	1849	1842	1868	1863	176
180°	1849	1849	1849	1849	1849	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	3704.6	3704.6	3704.6	3704.6	3704.6
2.5°	3713.2	3678.1	3687.4	3687.1	3677.3
5°	3631.1	3594.3	3622.1	3635.0	3649.0
7.5°	3477.7	3448.9	3502.4	3542.5	3571.6
10°	3358.7	3334.1	3403.5	3458.2	3498.5
12.5°	3221.0	3202.1	3285.9	3360.9	3412.4
15°	2994.8	2984.3	3089.8	3193.5	3261.9
17.5°	2752.5	2752.2	2872.6	3001.4	3083.7
20°	2586.2	2591.5	2720.6	2862.6	2959.0
22.5°	2419.9	2432.2	2570.1	2718.1	2828.5
25°	2172.2	2189.7	2344.3	2504.6	2622.1
27.5°	1934.2	1959.8	2122.4	2289.1	2432.1
30°	1777.9	1807.7	1973.3	2148.7	2295.9
32.5°	1624.5	1659.9	1821.3	2006.8	2156.8
35°	1394.4	1429.4	1584.3	1770.8	1932.0
37.5°	1156.7	1191.1	1342.4	1525.9	1700.1
40°	1001.9	1040.4	1184.7	1362.5	1539.5
42.5°	861.4	899.9	1035.6	1210.3	1377.5
45°	668.5	708.8	828.0	989.2	1143.5
47.5°	508.6	552.4	657.0	802.9	943.4
50°	414.0	457.8	561.0	689.5	824.4
52.5°	338.0	380.4	473.5	594.6	718.3
55°	240.2	280.5	362.0	464.8	571.7
57.5°	166.0	200.7	273.9	359.6	443.4
60°	120.1	153.4	222.2	291.9	360.2
62.5°	79.9	110.4	177.8	231.2	277.1
65°	26.9	51.4	114.7	138.4	154.1
67.5°	13.6	16.4	60.2	63.6	68.8
70°	10.8	10.8	28.7	30.6	35.8
72.5°	7.9	7.9	11.5	14.7	15.8
75°	3.6	3.6	1.8	0.0	0.0
77.5°	1.8	1.8	1.4	0.0	0.0
80°	1.8	1.8	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°	0.9	2.8	5.7	6.1	6.1
90°	4.7	13.9	28.3	30.6	30.6
92.5°	57.5	203.0	401.3	193.2	134.2
95°	131.9	470.4	1417.8	725.0	501.6
97.5°	210.5	538.5	2223.7	1857.7	1400.8
100°	270.8	565.6	2479.9	2594.7	2152.5
102.5°	329.2	603.7	2564.7	3146.6	2783.7
105°	431.0	670.5	2576.5	3854.6	3617.4
107.5°	527.1	740.8	2466.7	4218.4	4279.7
110°	591.1	793.8	2366.9	4331.4	4554.7



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	659.0	846.9	2270.8	4306.4	4673.4
115°	760.7	931.1	2145.5	4145.5	4689.0
117.5°	853.5	1013.3	2048.5	3888.8	4494.0
120°	913.8	1068.1	1999.5	3704.5	4326.3
122.5°	966.5	1119.0	1963.7	3516.1	4136.0
125°	1038.6	1192.9	1926.5	3256.0	3831.7
127.5°	1107.8	1259.8	1902.9	3026.7	3540.6
130°	1149.3	1301.3	1893.5	2895.2	3346.6
132.5°	1190.7	1340.9	1884.1	2779.5	3194.0
135°	1250.6	1395.6	1872.3	2626.8	2974.5
137.5°	1307.5	1446.6	1866.2	2497.2	2782.8
140°	1347.1	1480.7	1860.5	2417.5	2675.4
142.5°	1388.6	1512.9	1856.7	2343.1	2560.4
145°	1446.0	1558.9	1848.7	2245.8	2411.6
147.5°	1508.2	1606.3	1840.7	2164.0	2294.3
150°	1549.6	1634.8	1837.0	2112.6	2220.8
152.5°	1587.3	1661.5	1835.1	2070.7	2158.7
155°	1641.5	1701.4	1832.3	2015.1	2079.5
157.5°	1689.1	1735.6	1832.7	1976.0	2019.2
160°	1719.2	1758.4	1834.6	1953.1	1985.3
162.5°	1745.6	1777.4	1836.5	1934.0	1957.1
165°	1780.4	1801.2	1839.3	1912.5	1921.7
167.5°	1808.7	1820.7	1841.7	1895.9	1899.6
170°	1827.5	1832.2	1841.7	1886.4	1886.4
172.5°	1838.9	1839.8	1843.6	1877.0	1877.0
175°	1851.1	1848.8	1841.7	1867.5	1862.9
177.5°	1856.3	1852.6	1843.1	1858.1	1854.4
180°	1848.7	1848.7	1848.7	1848.7	1848.7

(END OF REPORT)