

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: P518865

Luminaire Tested: **SQ4-BB-125U-125D-930-1D-UNV-STD-W-6**

Issue Date: 4/29/2021

Test Information

Test Method: LM-79-2019
Report Number: P518865
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-125D-930-1D-UNV-STD-W-6
Description: CORELITE SQ4 SUSPENDED LED LUMINAIRE WITH BLACK BAFFLE
DOWNLIGHT 1250 LUMENS PER FOOT
UPLIGHT 1250 LUMENS PER FOOT
Light Source: 3000K CCT, 90 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

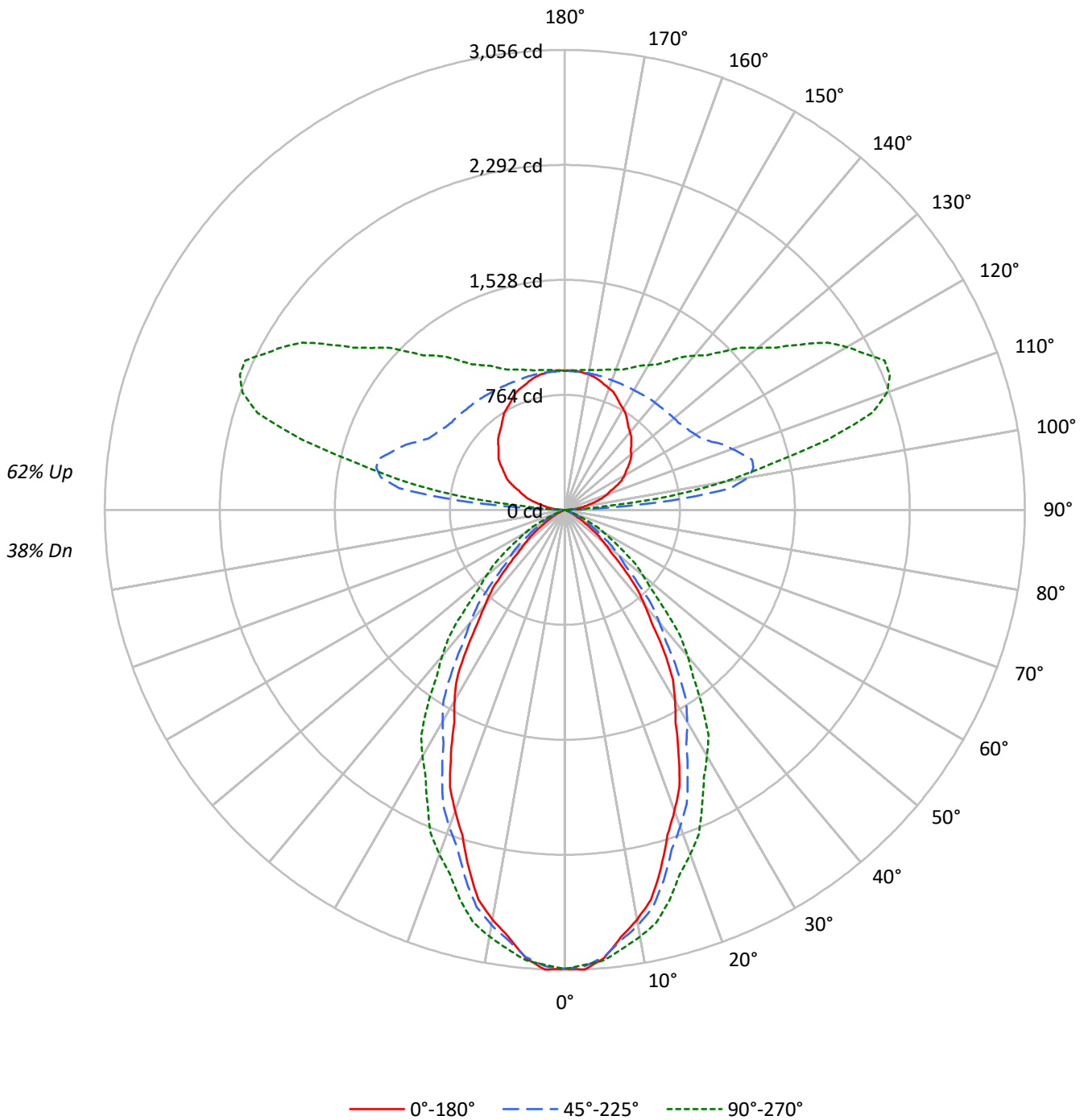
Lumens per Lamp: N/A
Luminaire Lumens: 9607.3 lumens
Efficiency: N/A
Efficacy: 82.0 lumens/watt
Spacing Criteria (0/90/45): 0.85 / 0.97 / 0.97
Luminous Opening: Rectangular (W 0.29' x L: 6' x H: 0')
CIE Type: Semi-Indirect

Input Watts (W): 117.2
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	104	104	104	104	95	95	95	95	77	77	77	60	60	60	45	45	45	38
1	96	93	89	86	88	84	82	79	69	67	66	55	54	53	42	41	41	35
2	89	83	77	73	81	75	71	67	62	59	56	50	48	46	39	37	36	31
3	82	74	67	62	75	68	62	58	56	52	49	45	43	41	35	34	33	28
4	76	66	59	54	69	61	55	50	51	47	43	41	38	36	33	31	29	26
5	70	60	53	47	64	55	49	44	46	42	38	38	35	32	30	28	27	23
6	65	54	47	42	59	50	44	39	42	37	34	35	32	29	28	26	24	21
7	60	49	42	37	55	46	39	35	39	34	31	32	29	26	26	24	22	19
8	56	45	38	33	51	42	36	31	36	31	28	30	26	24	24	22	20	18
9	53	41	35	30	48	39	32	28	33	28	25	28	24	22	23	20	19	17
10	49	38	32	27	45	36	30	26	31	26	23	26	22	20	21	19	17	15

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	18757	18757	18757
5°	18455	18409	18546
10°	17267	17498	17986
15°	15698	16196	17098
20°	13935	14659	15943
25°	12135	13096	14648
30°	10394	11536	13423
35°	8619	9793	11942
40°	6622	7830	10176
45°	4787	5929	8187
50°	3261	4419	6493
55°	2120	3196	5047
60°	1215	2250	3647
65°	322	1374	1847
70°	160	424	531
75°	71	36	0
80°	53	0	0
85°	0	0	0



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	278.3	2.9
10°-20°	711.7	7.4
20°-30°	891.0	9.3
30°-40°	823.0	8.6
40°-50°	553.0	5.8
50°-60°	285.6	3.0
60°-70°	89.5	0.9
70°-80°	5.7	0.1
80°-90°	2.3	0.0
90°-100°	432.4	4.5
100°-110°	1164.8	12.1
110°-120°	1222.5	12.7
120°-130°	992.0	10.3
130°-140°	778.0	8.1
140°-150°	597.3	6.2
150°-160°	429.5	4.5
160°-170°	262.4	2.7
170°-180°	88.5	0.9
0°-30°	1881.0	19.6
0°-40°	2703.9	28.1
0°-60°	3542.5	36.9
0°-90°	3639.9	37.9
90°-120°	2819.7	29.3
90°-150°	5187.0	54.0
90°-180°	5967.0	62.1
0°-180°	9607.3	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	3050	3050	3050	3050	3050	
5°	2989	2959	2982	2992	3004	277
15°	2465	2457	2543	2629	2685	687
25°	1788	1802	1930	2062	2158	820
35°	1148	1177	1304	1458	1590	711
45°	550	584	682	814	941	432
55°	198	231	298	383	471	184
65°	22	42	94	114	127	37
75°	3	3	2	0	0	4
85°	0	0	0	0	0	0
90°	2	7	14	15	15	5
95°	66	235	709	362	251	69
105°	216	335	1288	1927	1809	227
115°	380	466	1073	2073	2344	374
125°	519	596	963	1628	1916	464
135°	625	698	936	1313	1487	483
145°	723	779	924	1123	1206	453
155°	821	851	916	1008	1040	378
165°	890	901	920	956	961	251
175°	926	924	921	934	931	88
180°	924	924	924	924	924	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	3049.5	3049.5	3049.5	3049.5	3049.5
2.5°	3056.5	3027.7	3035.3	3035.1	3027.0
5°	2989.0	2958.7	2981.6	2992.2	3003.7
7.5°	2862.7	2839.0	2883.0	2916.0	2940.0
10°	2764.7	2744.5	2801.6	2846.6	2879.8
12.5°	2651.4	2635.8	2704.8	2766.6	2809.0
15°	2465.2	2456.6	2543.4	2628.8	2685.1
17.5°	2265.8	2265.5	2364.6	2470.6	2538.4
20°	2128.9	2133.2	2239.5	2356.4	2435.7
22.5°	1992.0	2002.1	2115.6	2237.4	2328.3
25°	1788.1	1802.5	1929.7	2061.7	2158.4
27.5°	1592.1	1613.2	1747.1	1884.3	2002.0
30°	1463.5	1488.0	1624.3	1768.7	1889.9
32.5°	1337.2	1366.4	1499.2	1651.9	1775.4
35°	1147.8	1176.6	1304.2	1457.7	1590.4
37.5°	952.2	980.4	1105.0	1256.1	1399.5
40°	824.7	856.4	975.2	1121.6	1267.3
42.5°	709.0	740.8	852.4	996.3	1133.9
45°	550.3	583.5	681.6	814.3	941.2
47.5°	418.7	454.8	540.8	660.9	776.6
50°	340.8	376.9	461.8	567.6	678.6
52.5°	278.2	313.2	389.8	489.5	591.3
55°	197.7	230.9	298.0	382.6	470.6
57.5°	136.6	165.2	225.4	296.0	365.0
60°	98.8	126.3	182.9	240.3	296.5
62.5°	65.8	90.9	146.4	190.3	228.1
65°	22.1	42.3	94.4	113.9	126.9
67.5°	11.2	13.5	49.6	52.3	56.7
70°	8.9	8.9	23.6	25.2	29.5
72.5°	6.5	6.5	9.4	12.1	13.0
75°	3.0	3.0	1.5	0.0	0.0
77.5°	1.5	1.5	1.2	0.0	0.0
80°	1.5	1.5	0.0	0.0	0.0
82.5°	0.3	0.3	0.0	0.0	0.0
85°	0.0	0.0	0.0	0.0	0.0
87.5°	0.5	1.4	2.8	3.1	3.1
90°	2.4	7.0	14.1	15.3	15.3
92.5°	28.7	101.5	200.7	96.6	67.1
95°	65.9	235.2	708.9	362.5	250.8
97.5°	105.3	269.2	1111.8	928.8	700.4
100°	135.4	282.8	1240.0	1297.3	1076.3
102.5°	164.6	301.9	1282.3	1573.3	1391.9
105°	215.5	335.2	1288.2	1927.3	1808.7
107.5°	263.5	370.4	1233.4	2109.2	2139.8
110°	295.6	396.9	1183.4	2165.7	2277.4

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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	329.5	423.4	1135.4	2153.2	2336.7
115°	380.3	465.5	1072.7	2072.8	2344.5
117.5°	426.7	506.6	1024.2	1944.4	2247.0
120°	456.9	534.0	999.7	1852.3	2163.1
122.5°	483.3	559.5	981.8	1758.0	2068.0
125°	519.3	596.4	963.2	1628.0	1915.9
127.5°	553.9	629.9	951.5	1513.3	1770.3
130°	574.6	650.6	946.7	1447.6	1673.3
132.5°	595.4	670.4	942.0	1389.7	1597.0
135°	625.3	697.8	936.1	1313.4	1487.2
137.5°	653.8	723.3	933.1	1248.6	1391.4
140°	673.6	740.3	930.3	1208.7	1337.7
142.5°	694.3	756.5	928.4	1171.5	1280.2
145°	723.0	779.4	924.4	1122.9	1205.8
147.5°	754.1	803.1	920.4	1082.0	1147.2
150°	774.8	817.4	918.5	1056.3	1110.4
152.5°	793.7	830.7	917.5	1035.4	1079.3
155°	820.7	850.7	916.1	1007.5	1039.8
157.5°	844.5	867.8	916.4	988.0	1009.6
160°	859.6	879.2	917.3	976.5	992.7
162.5°	872.8	888.7	918.2	967.0	978.5
165°	890.2	900.6	919.7	956.3	960.9
167.5°	904.4	910.3	920.8	948.0	949.8
170°	913.8	916.1	920.8	943.2	943.2
172.5°	919.4	919.9	921.8	938.5	938.5
175°	925.5	924.4	920.8	933.7	931.4
177.5°	928.1	926.3	921.5	929.0	927.2
180°	924.4	924.4	924.4	924.4	924.4

(END OF REPORT)