

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: P518385

Luminaire Tested: **SQ4-BB-025U-125D-930-1D-UNV-STD-W-6**

Issue Date: 4/29/2021

Test Information

Test Method: LM-79-2019
Report Number: P518385
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1910-536-32, 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-025U-125D-930-1D-UNV-STD-W-6
Description: CORELITE SQ4 SUSPENDED LED LUMINAIRE WITH BLACK BAFFLE
DOWNLIGHT 1250 LUMENS PER FOOT
UPLIGHT 250 LUMENS PER FOOT
Light Source: 3000K CCT, 90 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

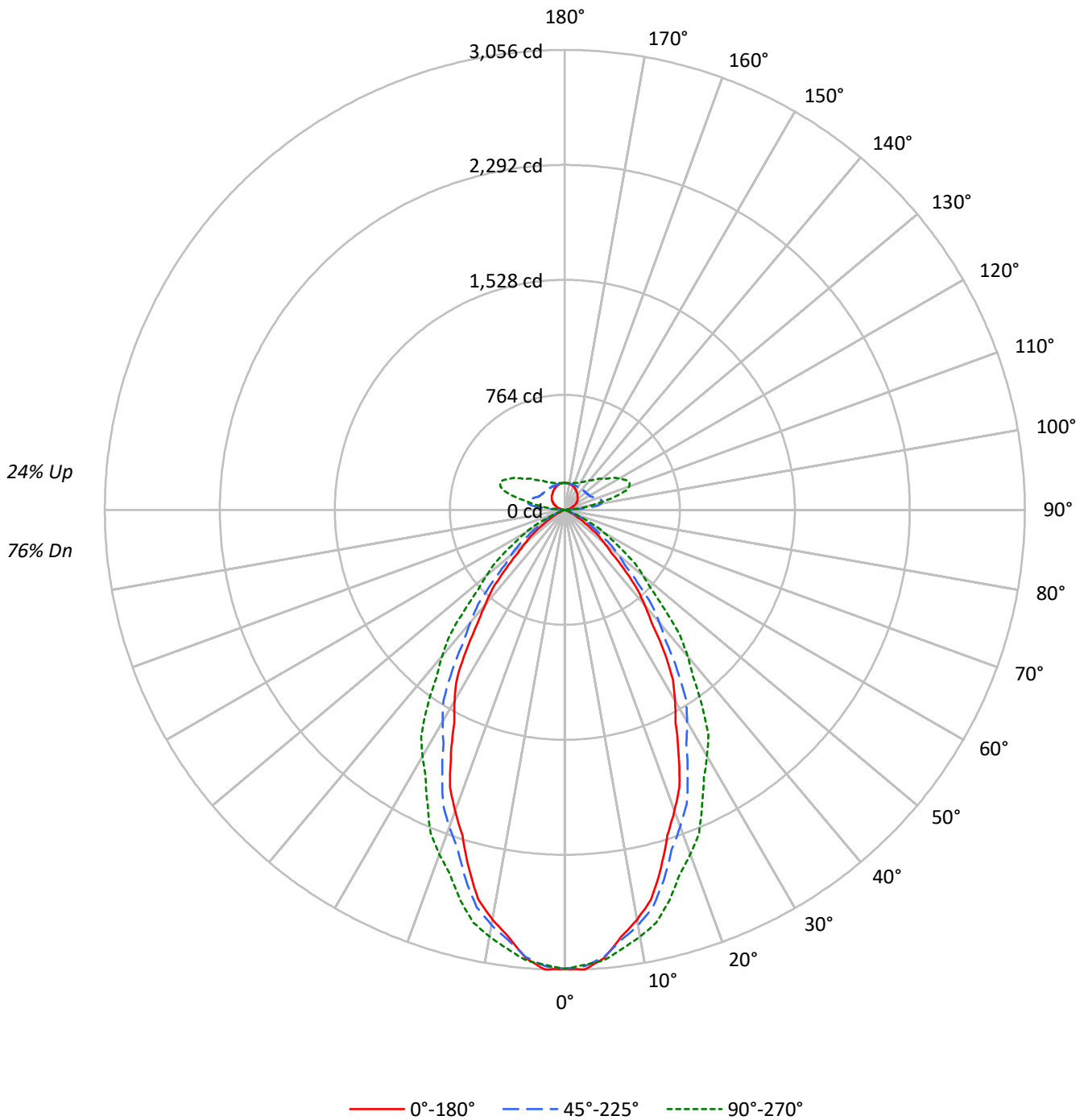
Lumens per Lamp: N/A
Luminaire Lumens: 4791.7 lumens
Efficiency: N/A
Efficacy: 61.5 lumens/watt
Spacing Criteria (0/90/45): 0.85 / 0.97 / 0.97
Luminous Opening: Rectangular (W 0.29' x L: 6' x H: 0')
CIE Type: Semi-Direct

Input Watts (W): 77.9
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	113	113	113	113	108	108	108	108	98	98	98	88	88	88	80	80	80	76				
1	106	103	100	97	101	98	96	93	90	88	86	82	81	79	75	74	73	69				
2	99	93	88	84	95	89	85	81	82	79	76	75	73	71	69	67	66	63				
3	92	84	78	74	88	81	76	71	75	71	67	69	66	63	64	62	59	57				
4	86	77	70	65	82	74	68	63	69	64	60	64	60	57	59	56	54	51				
5	80	70	63	58	77	68	62	57	63	58	54	59	55	51	55	52	49	46				
6	75	65	57	52	72	62	56	51	58	53	49	55	50	47	51	47	45	42				
7	70	59	52	47	67	58	51	46	54	49	45	51	46	43	48	44	41	39				
8	66	55	48	43	63	53	47	42	50	45	41	47	43	39	44	41	38	36				
9	62	51	44	40	60	50	43	39	47	41	38	44	40	36	42	38	35	33				
10	59	48	41	37	56	46	40	36	44	38	35	41	37	34	39	35	32	31				

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	5.8
10°-20°	711.7	14.9
20°-30°	891.0	18.6
30°-40°	823.0	17.2
40°-50°	553.0	11.5
50°-60°	285.6	6.0
60°-70°	89.5	1.9
70°-80°	5.7	0.1
80°-90°	1.1	0.0
90°-100°	86.7	1.8
100°-110°	227.9	4.8
110°-120°	236.3	4.9
120°-130°	189.6	4.0
130°-140°	148.7	3.1
140°-150°	114.2	2.4
150°-160°	82.2	1.7
160°-170°	50.3	1.0
170°-180°	17.0	0.4
0°-30°	1881.0	39.3
0°-40°	2703.9	56.4
0°-60°	3542.5	73.9
0°-90°	3638.7	75.9
90°-120°	551.0	11.5
90°-150°	1003.4	20.9
90°-180°	1153.0	24.1
0°-180°	4791.7	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°	1	3	9	5	5	1
95°	11	45	149	77	52	13
105°	41	62	252	382	357	43
115°	73	89	202	403	460	72
125°	102	114	184	310	366	90
135°	121	133	178	250	284	94
145°	140	149	176	214	230	88
155°	158	163	176	193	198	73
165°	171	173	176	182	185	48
175°	178	178	177	179	179	17
180°	178	178	178	178	178	

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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°	0.2	0.7	1.8	0.9	0.9
90°	1.1	3.4	9.1	4.6	4.6
92.5°	4.8	23.1	51.1	22.6	14.6
95°	11.4	44.9	149.4	77.0	52.5
97.5°	19.8	49.3	223.5	177.7	130.9
100°	26.2	53.0	246.3	249.6	193.8
102.5°	31.7	56.7	252.7	310.9	263.2
105°	41.0	62.2	252.0	382.5	356.9
107.5°	50.6	70.3	237.6	419.8	426.0
110°	57.0	74.9	225.8	429.3	456.1



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	63.4	80.3	214.8	423.3	464.3
115°	73.0	88.6	201.8	402.7	459.5
117.5°	82.3	96.6	192.9	374.1	437.2
120°	87.8	101.2	189.3	354.9	416.2
122.5°	93.3	106.7	186.5	335.7	396.1
125°	101.5	113.7	183.6	310.3	366.0
127.5°	108.1	120.6	181.1	289.8	336.8
130°	111.7	125.1	180.2	276.9	320.4
132.5°	115.4	128.8	179.2	265.9	304.9
135°	120.9	133.1	177.9	250.5	283.9
137.5°	126.6	138.6	177.7	238.9	266.4
140°	131.1	142.3	176.7	229.8	255.4
142.5°	134.8	145.0	176.7	223.3	245.4
145°	140.3	149.2	175.6	213.6	230.3
147.5°	145.7	154.4	175.6	205.6	219.4
150°	149.4	157.2	175.6	200.9	212.1
152.5°	153.0	159.0	175.6	197.2	205.7
155°	158.5	163.0	175.6	192.8	198.4
157.5°	162.6	166.8	175.6	188.9	192.9
160°	165.3	168.7	175.6	187.1	189.3
162.5°	168.1	170.5	175.6	185.2	187.5
165°	171.0	173.3	175.6	182.5	184.7
167.5°	173.8	174.9	176.7	181.3	182.2
170°	175.6	176.7	176.7	181.3	181.3
172.5°	176.5	176.7	176.7	180.4	179.5
175°	177.9	177.9	176.7	179.0	179.0
177.5°	177.9	177.9	177.0	178.8	177.9
180°	177.9	177.9	177.9	177.9	177.9

(END OF REPORT)