

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: P518392

Luminaire Tested: **SQ4-BB-025U-125D-940-1D-UNV-STD-W-4**

Issue Date: 4/29/2021

Test Information

Test Method: LM-79-2019
Report Number: P518392
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-940-1D-UNV-STD-W-4
Description: CORELITE SQ4 SUSPENDED LED LUMINAIRE WITH BLACK BAFFLE
DOWNLIGHT 1250 LUMENS PER FOOT
UPLIGHT 250 LUMENS PER FOOT
Light Source: 4000K CCT, 90 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

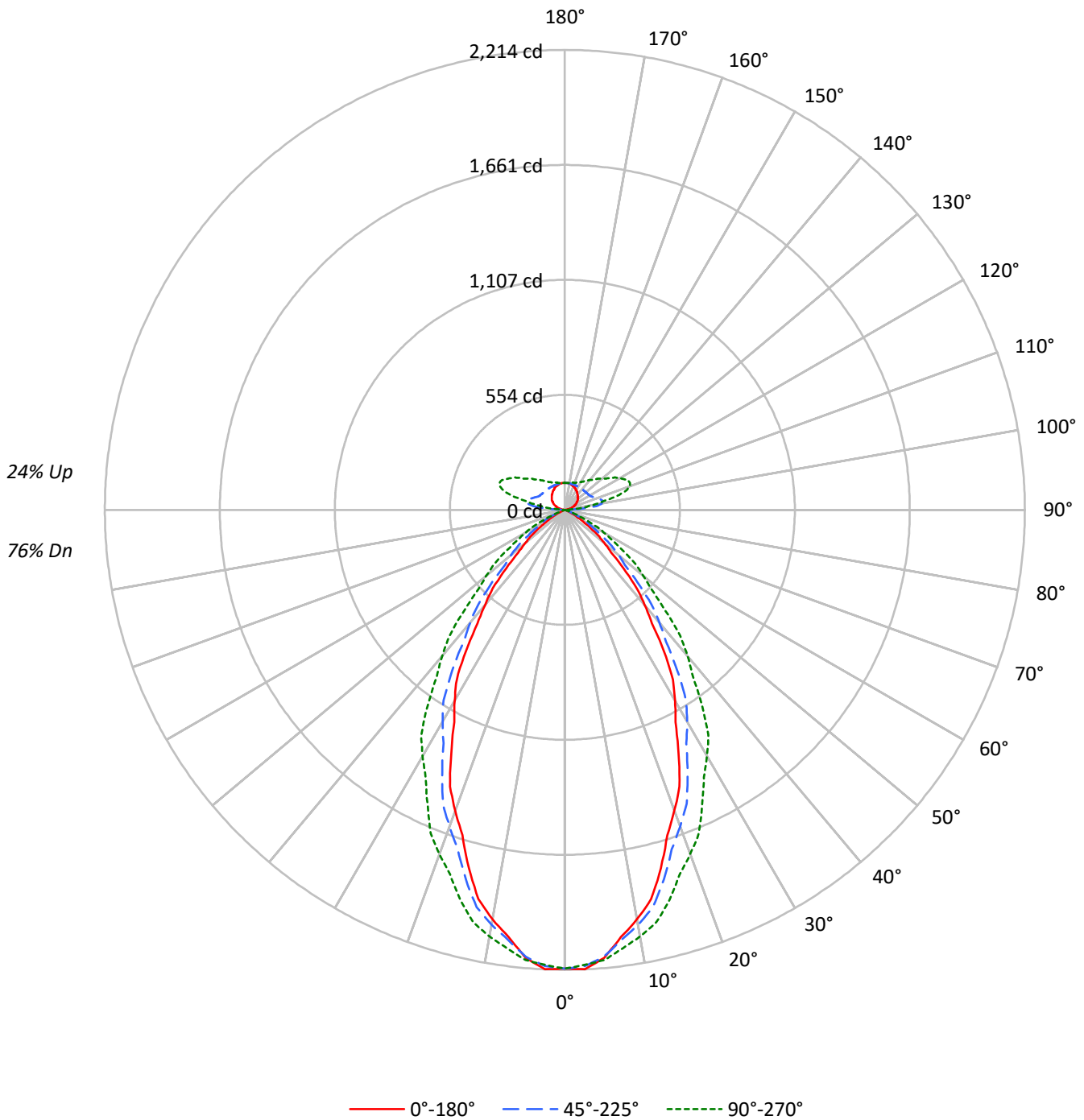
Lumens per Lamp: N/A
Luminaire Lumens: 3478.8 lumens
Efficiency: N/A
Efficacy: 70.3 lumens/watt
Spacing Criteria (0/90/45): 0.85 / 0.97 / 0.97
Luminous Opening: Rectangular (W 0.29' x L: 4' x H: 0')
CIE Type: Semi-Direct

Input Watts (W): 49.5
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	80	79	75	74	73	69				
2	99	93	88	84	94	89	85	81	82	79	76	75	73	71	69	67	66	62				
3	92	84	78	74	88	81	76	71	75	71	67	69	66	63	64	61	59	56				
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	61	57	63	58	54	59	55	51	55	51	49	46				
6	75	64	57	52	72	62	56	51	58	53	49	55	50	47	51	47	44	42				
7	70	59	52	47	67	58	51	46	54	48	45	51	46	43	47	44	41	39				
8	66	55	48	43	63	53	47	42	50	45	41	47	43	39	44	40	38	36				
9	62	51	44	40	60	50	43	39	47	41	38	44	39	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°	20376	20376	20376
5°	20048	19999	20147
10°	18759	19009	19540
15°	17054	17595	18574
20°	15138	15925	17320
25°	13183	14228	15913
30°	11292	12533	14581
35°	9363	10638	12973
40°	7194	8507	11054
45°	5200	6440	8895
50°	3542	4800	7055
55°	2303	3471	5482
60°	1321	2445	3964
65°	349	1493	2006
70°	173	461	577
75°	75	39	0
80°	58	0	0
85°	0	0	0



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	201.6	5.8
10°-20°	515.4	14.8
20°-30°	645.3	18.5
30°-40°	596.0	17.1
40°-50°	400.5	11.5
50°-60°	206.9	5.9
60°-70°	64.8	1.9
70°-80°	4.1	0.1
80°-90°	0.8	0.0
90°-100°	63.4	1.8
100°-110°	166.7	4.8
110°-120°	172.9	5.0
120°-130°	138.7	4.0
130°-140°	108.8	3.1
140°-150°	83.5	2.4
150°-160°	60.2	1.7
160°-170°	36.8	1.1
170°-180°	12.4	0.4
0°-30°	1362.3	39.2
0°-40°	1958.3	56.3
0°-60°	2565.7	73.8
0°-90°	2635.3	75.8
90°-120°	403.0	11.6
90°-150°	734.0	21.1
90°-180°	843.0	24.2
0°-180°	3478.8	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2208	2208	2208	2208	2208	
5°	2165	2143	2159	2167	2175	201
15°	1785	1779	1842	1904	1945	497
25°	1295	1305	1398	1493	1563	594
35°	831	852	944	1056	1152	515
45°	398	423	494	590	682	313
55°	143	167	216	277	341	134
65°	16	31	68	82	92	27
75°	2	2	1	0	0	3
85°	0	0	0	0	0	0
90°	1	2	7	3	3	1
95°	8	33	109	56	38	9
105°	30	46	184	280	261	32
115°	53	65	148	295	336	53
125°	74	83	134	227	268	66
135°	88	97	130	183	208	68
145°	103	109	128	156	168	64
155°	116	119	128	141	145	53
165°	125	127	128	134	135	35
175°	130	130	129	131	131	12
180°	130	130	130	130	130	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2208.5	2208.5	2208.5	2208.5	2208.5
2.5°	2213.7	2192.8	2198.3	2198.2	2192.3
5°	2164.7	2142.8	2159.4	2167.1	2175.4
7.5°	2073.3	2056.1	2088.0	2111.9	2129.3
10°	2002.3	1987.7	2029.0	2061.6	2085.7
12.5°	1920.3	1909.0	1959.0	2003.7	2034.4
15°	1785.4	1779.2	1842.1	1903.9	1944.6
17.5°	1641.0	1640.8	1712.6	1789.3	1838.4
20°	1541.8	1545.0	1622.0	1706.6	1764.1
22.5°	1442.7	1450.0	1532.2	1620.5	1686.3
25°	1295.0	1305.4	1397.6	1493.2	1563.2
27.5°	1153.1	1168.4	1265.3	1364.7	1449.9
30°	1059.9	1077.7	1176.4	1281.0	1368.7
32.5°	968.5	989.6	1085.8	1196.4	1285.8
35°	831.3	852.2	944.5	1055.7	1151.8
37.5°	689.6	710.1	800.3	909.7	1013.6
40°	597.3	620.3	706.3	812.3	917.8
42.5°	513.5	536.5	617.4	721.6	821.2
45°	398.5	422.6	493.6	589.8	681.7
47.5°	303.2	329.4	391.7	478.7	562.4
50°	246.8	272.9	334.4	411.1	491.5
52.5°	201.5	226.8	282.3	354.5	428.2
55°	143.2	167.2	215.8	277.1	340.8
57.5°	98.9	119.6	163.3	214.4	264.3
60°	71.6	91.4	132.5	174.0	214.8
62.5°	47.7	65.8	106.0	137.8	165.2
65°	16.0	30.7	68.4	82.5	91.9
67.5°	8.1	9.8	35.9	37.9	41.0
70°	6.4	6.4	17.1	18.2	21.4
72.5°	4.7	4.7	6.8	8.8	9.4
75°	2.1	2.1	1.1	0.0	0.0
77.5°	1.1	1.1	0.9	0.0	0.0
80°	1.1	1.1	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°	0.2	0.5	1.3	0.7	0.7
90°	0.8	2.5	6.7	3.3	3.3
92.5°	3.5	16.9	37.4	16.5	10.7
95°	8.3	32.8	109.3	56.3	38.4
97.5°	14.5	36.0	163.5	130.0	95.8
100°	19.2	38.8	180.2	182.6	141.8
102.5°	23.2	41.5	184.8	227.4	192.5
105°	30.0	45.5	184.3	279.8	261.1
107.5°	37.0	51.4	173.8	307.1	311.6
110°	41.7	54.8	165.2	314.1	333.7

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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	46.4	58.8	157.2	309.6	339.7
115°	53.4	64.8	147.6	294.6	336.2
117.5°	60.2	70.7	141.1	273.6	319.8
120°	64.2	74.0	138.5	259.6	304.5
122.5°	68.2	78.0	136.5	245.6	289.8
125°	74.2	83.2	134.3	227.0	267.8
127.5°	79.1	88.2	132.5	212.0	246.4
130°	81.7	91.5	131.8	202.6	234.4
132.5°	84.4	94.2	131.1	194.5	223.0
135°	88.4	97.4	130.1	183.2	207.7
137.5°	92.6	101.4	130.0	174.8	194.9
140°	95.9	104.1	129.3	168.1	186.8
142.5°	98.6	106.1	129.3	163.4	179.5
145°	102.6	109.1	128.5	156.3	168.5
147.5°	106.6	113.0	128.5	150.4	160.5
150°	109.3	115.0	128.5	147.0	155.1
152.5°	111.9	116.3	128.5	144.3	150.5
155°	115.9	119.2	128.5	141.1	145.1
157.5°	118.9	122.0	128.5	138.2	141.1
160°	120.9	123.4	128.5	136.8	138.5
162.5°	123.0	124.7	128.5	135.5	137.1
165°	125.1	126.8	128.5	133.5	135.1
167.5°	127.1	127.9	129.3	132.6	133.3
170°	128.5	129.3	129.3	132.6	132.6
172.5°	129.1	129.3	129.3	131.9	131.3
175°	130.1	130.1	129.3	131.0	131.0
177.5°	130.1	130.1	129.5	130.8	130.1
180°	130.1	130.1	130.1	130.1	130.1

(END OF REPORT)