

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: P518388

Luminaire Tested: **SQ4-BB-025U-125D-935-1D-UNV-STD-W-4**

Issue Date: 4/29/2021

Test Information

Test Method: LM-79-2019
Report Number: P518388
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-935-1D-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: 3500K CCT, 90 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

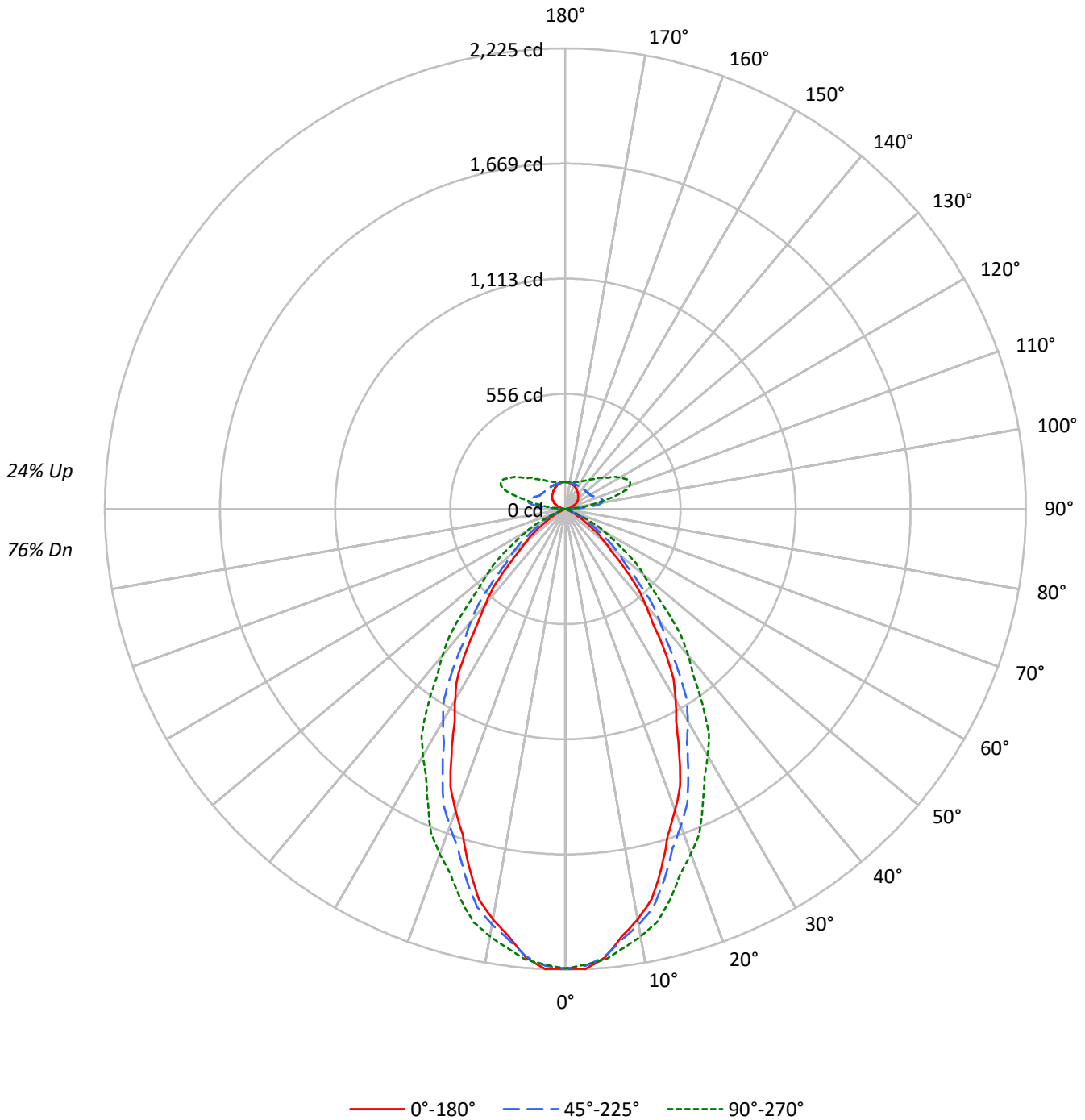
Lumens per Lamp: N/A
Luminaire Lumens: 3488.0 lumens
Efficiency: N/A
Efficacy: 70.5 lumens/watt
Spacing Criteria (0/90/45): 0.85 / 0.97 / 0.97
Luminous Opening: Rectangular (W 0.29' x L: 4' x H: 0')
CIE Type: Semi-Direct

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																	
RC	80									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	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°	20480	20480	20480
5°	20151	20101	20250
10°	18855	19106	19639
15°	17140	17685	18670
20°	15215	16006	17409
25°	13250	14300	15995
30°	11349	12597	14656
35°	9410	10693	13039
40°	7230	8550	11111
45°	5227	6474	8940
50°	3561	4824	7091
55°	2315	3489	5511
60°	1329	2458	3984
65°	351	1500	2017
70°	173	464	580
75°	75	39	0
80°	58	0	0
85°	0	0	0



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	202.6	5.8
10°-20°	518.1	14.9
20°-30°	648.6	18.6
30°-40°	599.1	17.2
40°-50°	402.5	11.5
50°-60°	207.9	6.0
60°-70°	65.1	1.9
70°-80°	4.1	0.1
80°-90°	0.8	0.0
90°-100°	63.1	1.8
100°-110°	165.9	4.8
110°-120°	172.0	4.9
120°-130°	138.0	4.0
130°-140°	108.3	3.1
140°-150°	83.1	2.4
150°-160°	59.9	1.7
160°-170°	36.6	1.0
170°-180°	12.4	0.4
0°-30°	1369.2	39.3
0°-40°	1968.3	56.4
0°-60°	2578.7	73.9
0°-90°	2648.7	75.9
90°-120°	401.1	11.5
90°-150°	730.4	20.9
90°-180°	839.0	24.1
0°-180°	3488.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2220	2220	2220	2220	2220	
5°	2176	2154	2170	2178	2186	202
15°	1794	1788	1852	1914	1955	500
25°	1302	1312	1405	1501	1571	597
35°	836	856	949	1061	1158	518
45°	401	425	496	593	685	315
55°	144	168	217	278	343	134
65°	16	31	69	83	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	45	183	278	260	32
115°	53	64	147	293	334	52
125°	74	83	134	226	266	66
135°	88	97	130	182	207	68
145°	102	109	128	156	168	64
155°	115	119	128	140	144	53
165°	124	126	128	133	134	35
175°	130	130	129	130	130	12
180°	130	130	130	130	130	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2219.8	2219.8	2219.8	2219.8	2219.8
2.5°	2225.0	2204.0	2209.5	2209.4	2203.5
5°	2175.8	2153.7	2170.4	2178.1	2186.5
7.5°	2083.9	2066.6	2098.7	2122.7	2140.1
10°	2012.6	1997.9	2039.4	2072.2	2096.3
12.5°	1930.1	1918.7	1968.9	2013.9	2044.8
15°	1794.5	1788.2	1851.5	1913.6	1954.6
17.5°	1649.3	1649.1	1721.3	1798.5	1847.8
20°	1549.7	1552.8	1630.2	1715.3	1773.1
22.5°	1450.0	1457.4	1540.0	1628.7	1694.9
25°	1301.6	1312.1	1404.7	1500.8	1571.2
27.5°	1159.0	1174.3	1271.8	1371.6	1457.3
30°	1065.3	1083.2	1182.4	1287.5	1375.7
32.5°	973.4	994.6	1091.3	1202.5	1292.4
35°	835.5	856.5	949.4	1061.1	1157.7
37.5°	693.1	713.7	804.4	914.4	1018.7
40°	600.3	623.4	709.9	816.5	922.5
42.5°	516.1	539.2	620.5	725.2	825.4
45°	400.6	424.7	496.2	592.8	685.2
47.5°	304.8	331.0	393.7	481.1	565.3
50°	248.1	274.3	336.1	413.2	494.0
52.5°	202.5	228.0	283.7	356.3	430.4
55°	143.9	168.1	216.9	278.5	342.6
57.5°	99.4	120.2	164.1	215.5	265.7
60°	72.0	91.9	133.2	174.9	215.9
62.5°	47.9	66.2	106.5	138.5	166.0
65°	16.1	30.8	68.7	82.9	92.4
67.5°	8.2	9.8	36.1	38.1	41.2
70°	6.4	6.4	17.2	18.3	21.5
72.5°	4.7	4.7	6.9	8.8	9.5
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	6.6	3.3	3.3
92.5°	3.5	16.8	37.2	16.5	10.6
95°	8.3	32.6	108.7	56.0	38.2
97.5°	14.4	35.9	162.7	129.4	95.3
100°	19.1	38.6	179.3	181.7	141.1
102.5°	23.1	41.3	183.9	226.3	191.6
105°	29.9	45.3	183.4	278.5	259.8
107.5°	36.9	51.1	173.0	305.6	310.1
110°	41.5	54.5	164.3	312.5	332.0

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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	46.2	58.5	156.4	308.1	338.0
115°	53.1	64.5	146.9	293.1	334.5
117.5°	59.9	70.3	140.4	272.3	318.2
120°	63.9	73.7	137.8	258.3	303.0
122.5°	67.9	77.6	135.8	244.4	288.4
125°	73.9	82.8	133.6	225.9	266.4
127.5°	78.7	87.8	131.8	210.9	245.2
130°	81.3	91.1	131.1	201.6	233.2
132.5°	84.0	93.7	130.5	193.5	222.0
135°	88.0	96.9	129.5	182.3	206.7
137.5°	92.1	100.9	129.3	173.9	193.9
140°	95.5	103.6	128.7	167.3	185.9
142.5°	98.1	105.6	128.7	162.6	178.6
145°	102.1	108.6	127.8	155.5	167.7
147.5°	106.1	112.4	127.8	149.6	159.7
150°	108.7	114.4	127.8	146.3	154.4
152.5°	111.4	115.8	127.8	143.6	149.7
155°	115.4	118.6	127.8	140.4	144.4
157.5°	118.4	121.4	127.8	137.5	140.4
160°	120.4	122.8	127.8	136.2	137.8
162.5°	122.3	124.1	127.8	134.8	136.5
165°	124.5	126.1	127.8	132.8	134.5
167.5°	126.5	127.3	128.7	132.0	132.6
170°	127.8	128.6	128.7	132.0	132.0
172.5°	128.5	128.7	128.7	131.3	130.6
175°	129.5	129.5	128.7	130.3	130.3
177.5°	129.5	129.5	128.8	130.1	129.5
180°	129.5	129.5	129.5	129.5	129.5

(END OF REPORT)