

Scaled data based on original data using
LM-79-08 Approved Method: Electrical and Photometric Measurements of Solid-State
Lighting Products

Test Report Prepared for

Cooper Lighting Solutions

(formerly Eaton)

Brand: CORELITE

Report Number: P521907

Luminaire Tested: **SQ4-WB-0U-125D-93050-1D-UNV-STD-W-4 (3000K)**

Issue Date: 5/5/2021

Test Information

Test Method: LM-79-08
Report Number: P521907
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2009-966-13)
Test Lab: INNOVATION CENTER
Issue Date: 5/5/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: CORELITE
Catalog Number: SQ4-WB-0U-125D-93050-1D-UNV-STD-W-4 (3000K)
Description: CORELITE SQ4 SUSPENDED LED LUMINAIRE WITH WHITE BAFFLE
DOWNLIGHT 1250 LUMENS PER FOOT
DIRECT ONLY
Light Source: 3000K/5000K CCT, 90 CRI LEDS, TUNED TO 3000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

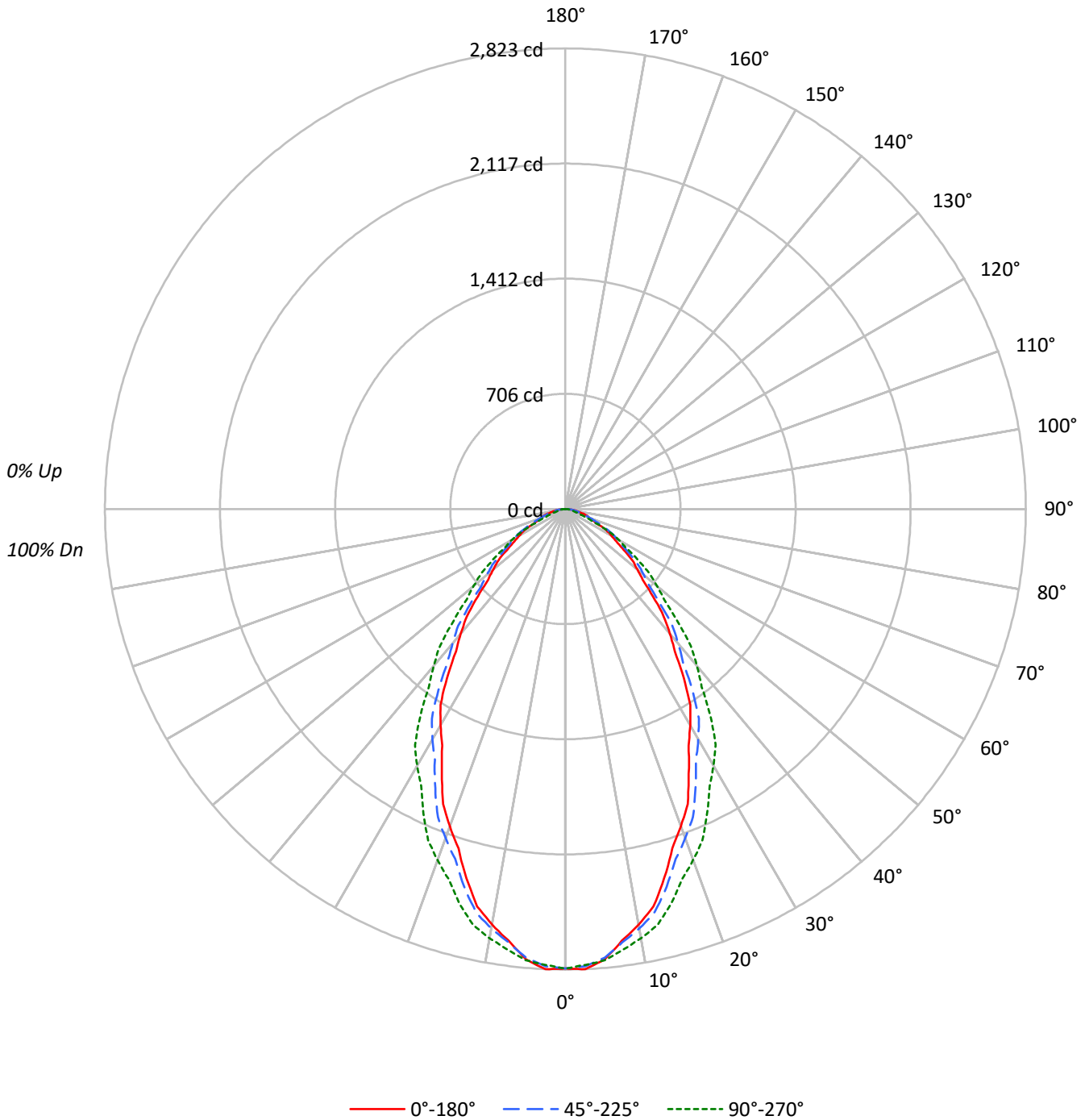
Lumens per Lamp: N/A
Luminaire Lumens: 4104.1 lumens
Efficiency: N/A
Efficacy: 73.9 lumens/watt
Spacing Criteria (0/90/45): 0.89 / 1 / 1.02
Luminous Opening: Rectangular (W 0.29' x L: 4' x H: 0')
CIE Type: Direct

Input Watts (W): 55.5
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	0
RCR																		
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100
1	111	107	104	101	109	105	102	99	101	99	96	97	95	93	94	92	91	89
2	103	97	91	87	101	95	90	86	92	87	84	88	85	82	85	83	80	78
3	96	87	81	75	94	86	80	75	83	78	73	80	76	72	78	74	71	69
4	89	79	72	66	87	78	71	66	76	70	65	74	68	64	71	67	64	62
5	83	72	65	59	81	71	64	59	69	63	58	67	62	58	66	61	57	55
6	78	66	59	53	76	65	58	53	64	57	53	62	56	52	61	56	52	50
7	73	61	53	48	71	60	53	48	59	52	48	58	52	47	56	51	47	45
8	68	57	49	44	67	56	49	44	55	48	44	53	48	43	52	47	43	41
9	64	53	45	40	63	52	45	40	51	45	40	50	44	40	49	44	40	38
10	61	49	42	37	60	48	42	37	48	41	37	47	41	37	46	41	37	35

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	25986	25986	25986
5°	25662	25570	25718
10°	24244	24464	25032
15°	22381	22900	23927
20°	20324	21089	22484
25°	18229	19224	20947
30°	16300	17366	19354
35°	14253	15284	17469
40°	11997	12950	15122
45°	9901	10755	12626
50°	8266	9011	10520
55°	7018	7732	8688
60°	5997	6704	6933
65°	4774	5639	4478
70°	4235	4400	2733
75°	3921	3568	1675
80°	3613	3284	1445
85°	3271	3006	1175



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	258.3	6.3
10°-20°	671.9	16.4
20°-30°	870.4	21.2
30°-40°	852.3	20.8
40°-50°	652.4	15.9
50°-60°	434.7	10.6
60°-70°	237.2	5.8
70°-80°	98.9	2.4
80°-90°	28.0	0.7
90°-100°	0.0	0.0
100°-110°	0.0	0.0
110°-120°	0.0	0.0
120°-130°	0.0	0.0
130°-140°	0.0	0.0
140°-150°	0.0	0.0
150°-160°	0.0	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-30°	1800.7	43.9
0°-40°	2653.0	64.6
0°-60°	3740.1	91.1
0°-90°	4104.1	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4104.1	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2816	2816	2816	2816	2816	
5°	2771	2743	2761	2767	2777	258
15°	2343	2335	2398	2463	2505	654
25°	1791	1796	1888	1971	2058	824
35°	1266	1272	1357	1448	1551	787
45°	759	773	824	887	968	592
55°	436	454	481	499	540	396
65°	219	237	258	226	205	227
75°	110	110	100	69	47	117
85°	31	31	28	18	11	35
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2816.5	2816.5	2816.5	2816.5	2816.5
2.5°	2823.4	2798.3	2804.6	2804.4	2796.7
5°	2770.8	2743.0	2760.9	2767.3	2776.9
7.5°	2667.9	2646.9	2679.5	2703.7	2723.3
10°	2587.8	2569.7	2611.3	2646.5	2671.9
12.5°	2494.9	2479.7	2531.2	2578.5	2611.6
15°	2343.2	2334.7	2397.5	2462.8	2505.0
17.5°	2180.8	2176.7	2248.7	2324.9	2379.0
20°	2070.0	2068.8	2147.9	2227.2	2290.0
22.5°	1958.3	1961.0	2044.1	2126.5	2198.1
25°	1790.7	1795.6	1888.4	1970.7	2057.7
27.5°	1635.8	1637.9	1733.9	1820.8	1913.6
30°	1530.0	1536.0	1630.1	1720.0	1816.7
32.5°	1424.2	1431.2	1523.3	1616.2	1714.9
35°	1265.5	1271.5	1357.0	1448.3	1551.0
37.5°	1101.9	1110.1	1185.9	1272.2	1373.3
40°	996.1	1008.2	1075.2	1156.5	1255.6
42.5°	894.3	909.2	971.4	1048.5	1138.0
45°	758.8	773.3	824.3	886.7	967.7
47.5°	642.1	658.8	698.0	751.7	820.8
50°	575.9	591.6	627.8	667.6	732.9
52.5°	517.6	533.3	565.5	596.2	651.8
55°	436.3	454.4	480.7	499.0	540.1
57.5°	369.5	386.9	407.8	416.1	440.9
60°	325.0	344.4	363.3	362.4	375.7
62.5°	284.5	300.9	319.8	306.8	307.5
65°	218.7	236.9	258.3	225.7	205.1
67.5°	176.7	180.6	202.7	157.4	133.0
70°	157.0	157.0	163.1	121.9	101.3
72.5°	138.2	138.2	132.5	99.1	77.6
75°	110.0	110.0	100.1	68.7	47.0
77.5°	84.8	83.8	76.6	51.3	34.1
80°	68.0	68.0	61.8	40.5	27.2
82.5°	53.1	53.1	48.0	31.6	20.3
85°	30.9	30.9	28.4	18.4	11.1
87.5°	10.9	10.9	9.9	5.9	4.9
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)