

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: P521909

Luminaire Tested: **SQ4-WB-0U-125D-93050-1D-UNV-STD-W-4 (4000K)**

Issue Date: 5/5/2021

Test Information

Test Method: LM-79-08
Report Number: P521909
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 (4000K)
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 4000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

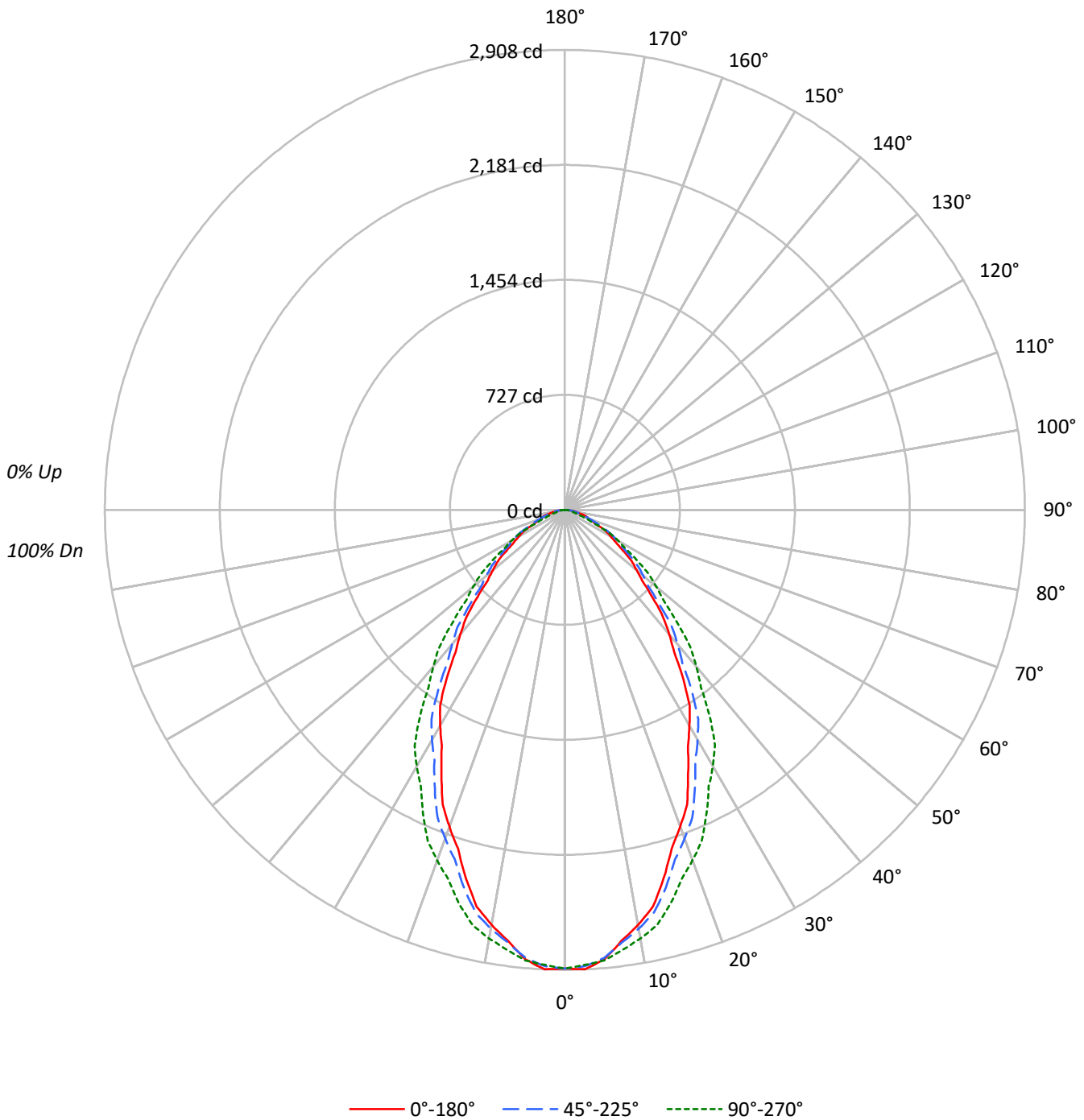
Lumens per Lamp: N/A
Luminaire Lumens: 4227.2 lumens
Efficiency: N/A
Efficacy: 76.0 lumens/watt
Spacing Criteria (0/90/45): 0.89 / 1 / 1.02
Luminous Opening: Rectangular (W 0.29' x L: 4' x H: 0')
CIE Type: Direct

Input Watts (W): 55.6
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	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100				100
1	111	107	104	101	109	105	102	99	101	99	96	97	95	93	94	92	91	89				89
2	103	97	91	87	101	95	90	86	92	87	84	88	85	82	85	83	80	78				78
3	96	87	81	75	94	86	80	75	83	78	73	80	76	72	78	74	71	69				69
4	89	79	72	66	87	78	71	66	76	70	65	74	68	64	71	67	64	62				62
5	83	72	65	59	81	71	64	59	69	63	58	67	62	58	66	61	57	55				55
6	78	66	59	53	76	65	58	53	64	57	53	62	56	52	61	56	52	50				50
7	73	61	53	48	71	60	53	48	59	52	48	58	52	47	56	51	47	45				45
8	68	57	49	44	67	56	49	44	55	48	44	53	48	43	52	47	43	41				41
9	64	53	45	40	63	52	45	40	51	45	40	50	44	40	49	44	40	38				38
10	61	49	42	37	60	48	42	37	48	41	37	47	41	37	46	41	37	35				35

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	26765	26765	26765
5°	26431	26337	26490
10°	24972	25199	25782
15°	23052	23587	24645
20°	20934	21721	23158
25°	18776	19800	21575
30°	16789	17887	19935
35°	14681	15742	17993
40°	12357	13337	15576
45°	10198	11078	13005
50°	8514	9281	10834
55°	7227	7965	8948
60°	6178	6905	7141
65°	4919	5807	4613
70°	4362	4532	2816
75°	4039	3675	1725
80°	3719	3379	1488
85°	3366	3102	1217



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	266.1	6.3
10°-20°	692.1	16.4
20°-30°	896.5	21.2
30°-40°	877.9	20.8
40°-50°	672.0	15.9
50°-60°	447.8	10.6
60°-70°	244.3	5.8
70°-80°	101.8	2.4
80°-90°	28.8	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°	1854.7	43.9
0°-40°	2732.5	64.6
0°-60°	3852.3	91.1
0°-90°	4227.2	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4227.2	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2901	2901	2901	2901	2901	
5°	2854	2825	2844	2850	2860	265
15°	2413	2405	2469	2537	2580	674
25°	1844	1849	1945	2030	2119	848
35°	1304	1310	1398	1492	1598	810
45°	782	796	849	913	997	610
55°	449	468	495	514	556	407
65°	225	244	266	232	211	234
75°	113	113	103	71	48	121
85°	32	32	29	19	12	36
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2901.0	2901.0	2901.0	2901.0	2901.0
2.5°	2908.1	2882.2	2888.7	2888.6	2880.6
5°	2853.9	2825.2	2843.7	2850.3	2860.2
7.5°	2748.0	2726.3	2759.9	2784.8	2805.0
10°	2665.5	2646.8	2689.7	2725.9	2752.0
12.5°	2569.7	2554.1	2607.2	2655.8	2689.9
15°	2413.4	2404.7	2469.4	2536.6	2580.2
17.5°	2246.2	2241.9	2316.2	2394.6	2450.3
20°	2132.1	2130.9	2212.3	2294.0	2358.7
22.5°	2017.0	2019.8	2105.4	2190.3	2264.0
25°	1844.4	1849.4	1945.0	2029.8	2119.4
27.5°	1684.8	1687.1	1785.9	1875.4	1971.0
30°	1575.9	1582.1	1679.0	1771.6	1871.2
32.5°	1466.9	1474.1	1569.0	1664.7	1766.3
35°	1303.5	1309.7	1397.7	1491.7	1597.5
37.5°	1134.9	1143.4	1221.5	1310.4	1414.5
40°	1026.0	1038.4	1107.4	1191.2	1293.3
42.5°	921.1	936.5	1000.5	1080.0	1172.1
45°	781.6	796.5	849.0	913.3	996.7
47.5°	661.4	678.6	718.9	774.3	845.5
50°	593.2	609.4	646.6	687.6	754.8
52.5°	533.1	549.3	582.5	614.1	671.3
55°	449.3	468.0	495.2	513.9	556.3
57.5°	380.6	398.5	420.1	428.5	454.2
60°	334.8	354.7	374.2	373.3	387.0
62.5°	293.0	310.0	329.4	316.0	316.7
65°	225.3	244.0	266.0	232.5	211.3
67.5°	182.0	186.0	208.8	162.1	137.0
70°	161.7	161.7	168.0	125.5	104.4
72.5°	142.3	142.3	136.5	102.1	79.9
75°	113.3	113.3	103.1	70.8	48.4
77.5°	87.3	86.3	78.9	52.8	35.1
80°	70.0	70.0	63.6	41.7	28.0
82.5°	54.7	54.7	49.4	32.6	20.9
85°	31.8	31.8	29.3	18.9	11.5
87.5°	11.2	11.2	10.2	6.1	5.1
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)