

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: P519333

Luminaire Tested: **SQ4-WB-0U-125D-830-1D-UNV-STD-W-6**

Issue Date: 4/29/2021

Test Information

Test Method: LM-79-2019
Report Number: P519333
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2009-966-13)
Test Lab: INNOVATION CENTER
Issue Date: 4/29/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: CORELITE
Catalog Number: SQ4-WB-0U-125D-830-1D-UNV-STD-W-6
Description: CORELITE SQ4 SUSPENDED LED LUMINAIRE WITH WHITE BAFFLE
DOWNLIGHT 1250 LUMENS PER FOOT
DIRECT ONLY
Light Source: 3000K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

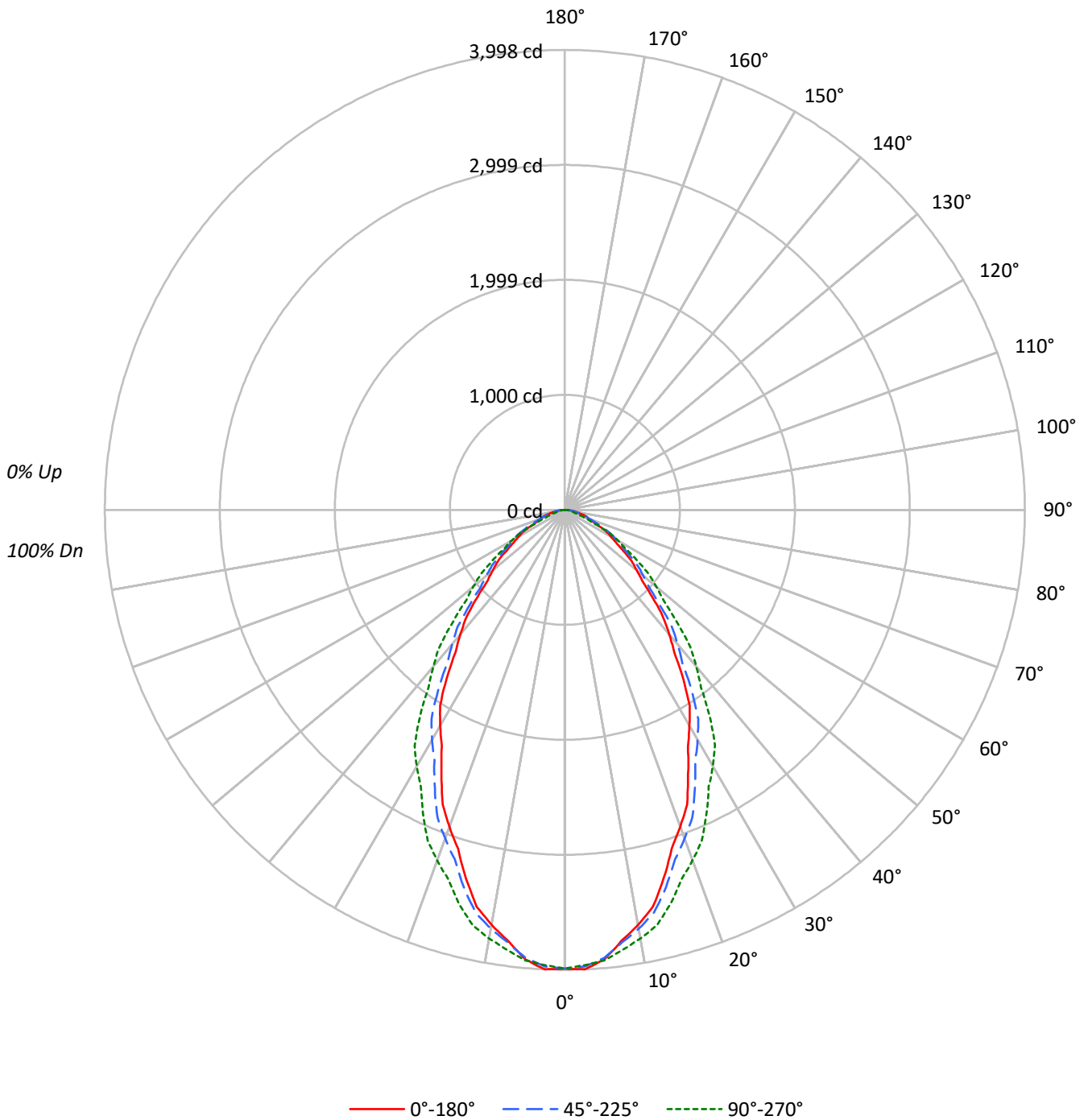
Lumens per Lamp: N/A
Luminaire Lumens: 5812.0 lumens
Efficiency: N/A
Efficacy: 83.4 lumens/watt
Spacing Criteria (0/90/45): 0.89 / 1 / 1.02
Luminous Opening: Rectangular (W 0.29' x L: 6' x H: 0')
CIE Type: Direct

Input Watts (W): 69.7
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°	24532	24532	24532
5°	24226	24140	24280
10°	22889	23097	23632
15°	21130	21620	22590
20°	19188	19910	21227
25°	17210	18149	19776
30°	15388	16395	18272
35°	13456	14429	16492
40°	11326	12225	14277
45°	9347	10154	11920
50°	7803	8508	9931
55°	6625	7301	8201
60°	5662	6329	6544
65°	4509	5324	4228
70°	3998	4154	2581
75°	3703	3370	1580
80°	3411	3099	1364
85°	3091	2844	1115



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	365.8	6.3
10°-20°	951.6	16.4
20°-30°	1232.5	21.2
30°-40°	1207.0	20.8
40°-50°	923.9	15.9
50°-60°	615.6	10.6
60°-70°	335.9	5.8
70°-80°	140.0	2.4
80°-90°	39.7	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°	2549.9	43.9
0°-40°	3756.9	64.6
0°-60°	5296.4	91.1
0°-90°	5812.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5812.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	3988	3988	3988	3988	3988	
5°	3924	3884	3910	3919	3932	365
15°	3318	3306	3395	3488	3548	927
25°	2536	2543	2674	2791	2914	1166
35°	1792	1801	1922	2051	2196	1114
45°	1075	1095	1167	1256	1370	838
55°	618	644	681	707	765	560
65°	310	335	366	320	290	322
75°	156	156	142	97	66	166
85°	44	44	40	26	16	50
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	3988.5	3988.5	3988.5	3988.5	3988.5
2.5°	3998.3	3962.7	3971.7	3971.4	3960.5
5°	3923.7	3884.4	3909.7	3918.8	3932.5
7.5°	3778.1	3748.3	3794.6	3828.8	3856.5
10°	3664.7	3639.0	3698.0	3747.8	3783.7
12.5°	3533.1	3511.5	3584.6	3651.4	3698.3
15°	3318.2	3306.2	3395.2	3487.6	3547.5
17.5°	3088.2	3082.4	3184.5	3292.3	3368.9
20°	2931.4	2929.7	3041.7	3154.0	3242.9
22.5°	2773.2	2777.0	2894.7	3011.4	3112.7
25°	2535.9	2542.7	2674.2	2790.7	2913.9
27.5°	2316.4	2319.5	2455.4	2578.4	2709.9
30°	2166.6	2175.2	2308.4	2435.8	2572.7
32.5°	2016.8	2026.7	2157.2	2288.8	2428.4
35°	1792.1	1800.7	1921.6	2050.9	2196.4
37.5°	1560.4	1572.0	1679.4	1801.7	1944.7
40°	1410.6	1427.7	1522.6	1637.8	1778.1
42.5°	1266.4	1287.6	1375.6	1484.9	1611.5
45°	1074.6	1095.1	1167.3	1255.7	1370.3
47.5°	909.4	933.0	988.5	1064.5	1162.4
50°	815.5	837.8	889.1	945.4	1037.8
52.5°	732.9	755.2	800.8	844.3	923.0
55°	617.8	643.5	680.8	706.6	764.8
57.5°	523.3	547.9	577.5	589.2	624.4
60°	460.3	487.7	514.5	513.2	532.0
62.5°	402.9	426.1	452.9	434.4	435.4
65°	309.8	335.4	365.8	319.6	290.5
67.5°	250.3	255.7	287.0	222.9	188.3
70°	222.3	222.3	231.0	172.6	143.5
72.5°	195.7	195.7	187.6	140.4	109.9
75°	155.8	155.8	141.8	97.3	66.5
77.5°	120.1	118.7	108.5	72.6	48.3
80°	96.3	96.3	87.5	57.3	38.5
82.5°	75.3	75.3	67.9	44.8	28.7
85°	43.8	43.8	40.3	26.0	15.8
87.5°	15.4	15.4	14.0	8.4	7.0
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)