

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: P519045

Luminaire Tested: **SQ4-WB-025U-125D-830-1D-UNV-STD-W-6**

Issue Date: 4/29/2021

Test Information

Test Method: LM-79-2019
Report Number: P519045
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1910-536-32, 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-025U-125D-830-1D-UNV-STD-W-6
Description: CORELITE SQ4 SUSPENDED LED LUMINAIRE WITH WHITE BAFFLE
DOWNLIGHT 1250 LUMENS PER FOOT
UPLIGHT 250 LUMENS PER FOOT
Light Source: 3000K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

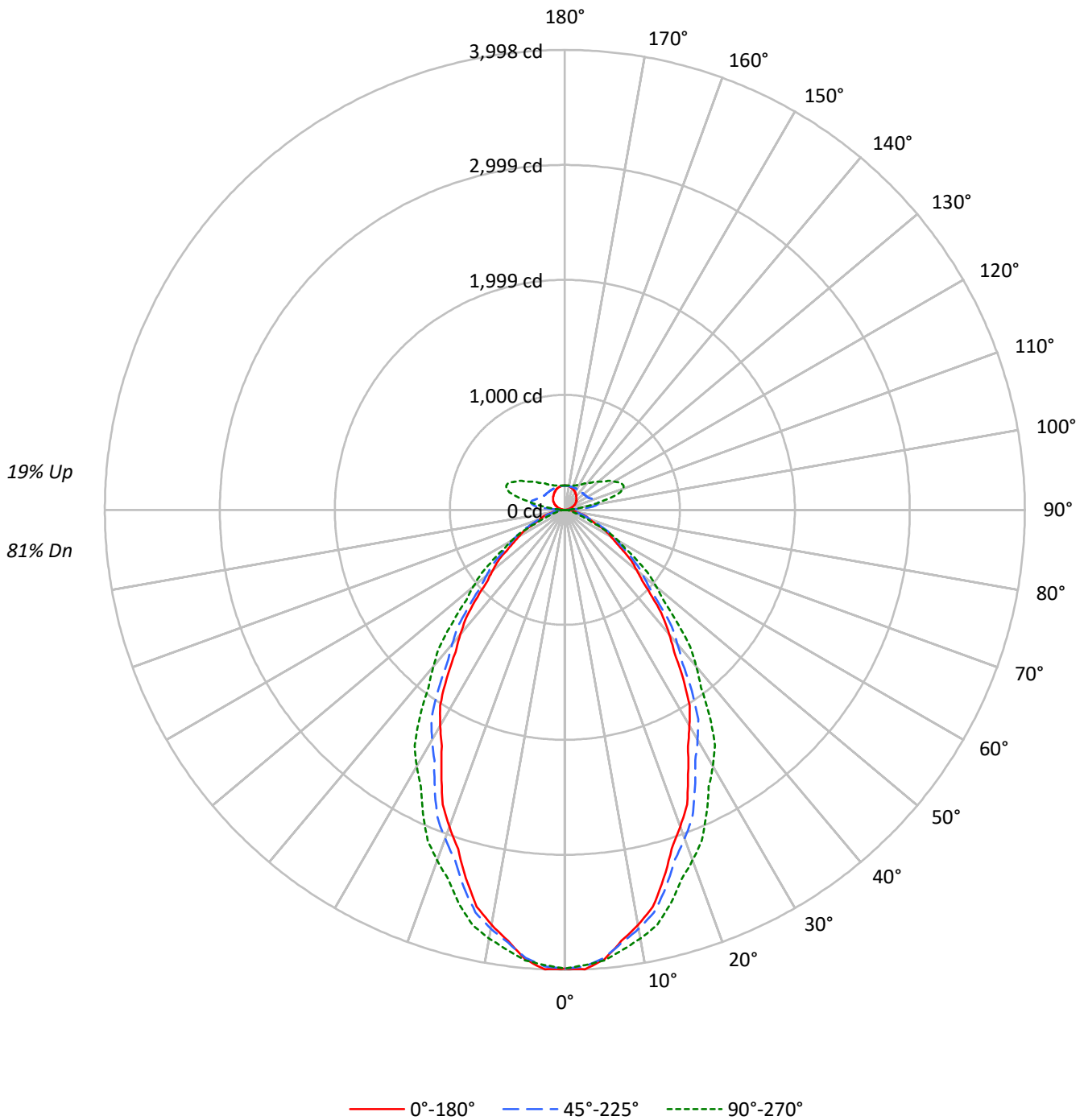
Lumens per Lamp: N/A
Luminaire Lumens: 7180.7 lumens
Efficiency: N/A
Efficacy: 92.2 lumens/watt
Spacing Criteria (0/90/45): 0.89 / 1 / 1.02
Luminous Opening: Rectangular (W 0.29' x L: 6' x H: 0')
CIE Type: Semi-Direct

Input Watts (W): 77.9
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	115	115	115	115	110	110	110	110	101	101	101	92	92	92	85	85	85	81				
1	107	103	99	96	102	99	96	93	91	89	87	84	82	81	78	76	75	72				
2	99	92	87	82	94	89	84	79	82	78	75	76	73	70	71	68	66	63				
3	91	83	76	71	87	80	74	69	74	69	65	69	65	62	64	61	59	56				
4	85	75	67	62	81	72	66	61	68	62	58	63	59	55	59	55	52	50				
5	79	68	60	55	75	66	59	54	62	56	51	58	53	49	54	50	47	45				
6	73	62	54	49	70	60	53	48	57	51	46	53	48	44	50	46	43	40				
7	69	57	49	44	66	55	48	43	52	46	42	49	44	40	46	42	39	37				
8	64	52	45	40	62	51	44	39	48	42	38	46	40	37	43	39	35	34				
9	60	49	41	37	58	47	41	36	45	39	35	42	37	34	40	36	33	31				
10	57	45	38	34	55	44	37	33	42	36	32	40	35	31	38	33	30	28				

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	5.1
10°-20°	951.6	13.3
20°-30°	1232.5	17.2
30°-40°	1207.0	16.8
40°-50°	923.9	12.9
50°-60°	615.6	8.6
60°-70°	335.9	4.7
70°-80°	140.0	1.9
80°-90°	40.8	0.6
90°-100°	102.8	1.4
100°-110°	270.3	3.8
110°-120°	280.3	3.9
120°-130°	224.9	3.1
130°-140°	176.4	2.5
140°-150°	135.4	1.9
150°-160°	97.5	1.4
160°-170°	59.7	0.8
170°-180°	20.2	0.3
0°-30°	2549.9	35.5
0°-40°	3756.9	52.3
0°-60°	5296.4	73.8
0°-90°	5813.1	81.0
90°-120°	653.5	9.1
90°-150°	1190.2	16.6
90°-180°	1368.0	19.1
0°-180°	7180.7	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	48
90°	1	4	11	5	5	3
95°	14	53	177	91	62	15
105°	49	74	299	454	423	52
115°	87	105	239	478	545	85
125°	120	135	218	368	434	107
135°	143	158	211	297	337	111
145°	166	177	208	253	273	104
155°	188	193	208	229	235	86
165°	203	206	208	216	219	57
175°	211	211	210	212	212	20
180°	211	211	211	211	211	



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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°	15.7	16.2	16.2	9.5	8.1
90°	1.4	4.0	10.8	5.4	5.4
92.5°	5.7	27.4	60.6	26.8	17.3
95°	13.5	53.2	177.2	91.3	62.2
97.5°	23.5	58.4	265.1	210.8	155.3
100°	31.1	62.8	292.1	296.1	229.9
102.5°	37.6	67.2	299.7	368.8	312.2
105°	48.7	73.8	298.9	453.8	423.3
107.5°	60.1	83.3	281.9	497.9	505.3
110°	67.6	88.8	267.8	509.3	541.0



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	75.2	95.3	254.8	502.1	550.8
115°	86.6	105.1	239.4	477.6	545.1
117.5°	97.7	114.6	228.8	443.7	518.6
120°	104.1	120.0	224.5	420.9	493.7
122.5°	110.6	126.5	221.3	398.2	469.9
125°	120.4	134.9	217.8	368.0	434.2
127.5°	128.2	143.0	214.8	343.7	399.5
130°	132.5	148.4	213.7	328.5	380.1
132.5°	136.9	152.7	212.6	315.4	361.7
135°	143.4	157.9	211.0	297.1	336.8
137.5°	150.1	164.4	210.7	283.4	316.0
140°	155.5	168.8	209.6	272.6	303.0
142.5°	159.9	172.0	209.6	264.9	291.1
145°	166.4	176.9	208.3	253.4	273.2
147.5°	172.9	183.2	208.3	243.8	260.2
150°	177.2	186.4	208.3	238.3	251.6
152.5°	181.5	188.7	208.3	233.9	244.0
155°	188.0	193.3	208.3	228.7	235.3
157.5°	192.9	197.9	208.3	224.1	228.8
160°	196.1	200.1	208.3	221.9	224.5
162.5°	199.4	202.3	208.3	219.7	222.4
165°	202.9	205.5	208.3	216.5	219.1
167.5°	206.1	207.4	209.6	215.1	216.1
170°	208.3	209.6	209.6	215.1	215.1
172.5°	209.4	209.6	209.6	213.9	212.9
175°	211.0	211.0	209.6	212.3	212.3
177.5°	211.0	211.0	209.9	212.1	211.0
180°	211.0	211.0	211.0	211.0	211.0

(END OF REPORT)