

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: P519052

Luminaire Tested: **SQ4-WB-025U-125D-840-1D-UNV-STD-W-4**

Issue Date: 4/29/2021

Test Information

Test Method: LM-79-2019
Report Number: P519052
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-840-1D-UNV-STD-W-4
Description: CORELITE SQ4 SUSPENDED LED LUMINAIRE WITH WHITE BAFFLE
DOWNLIGHT 1250 LUMENS PER FOOT
UPLIGHT 250 LUMENS PER FOOT
Light Source: 4000K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

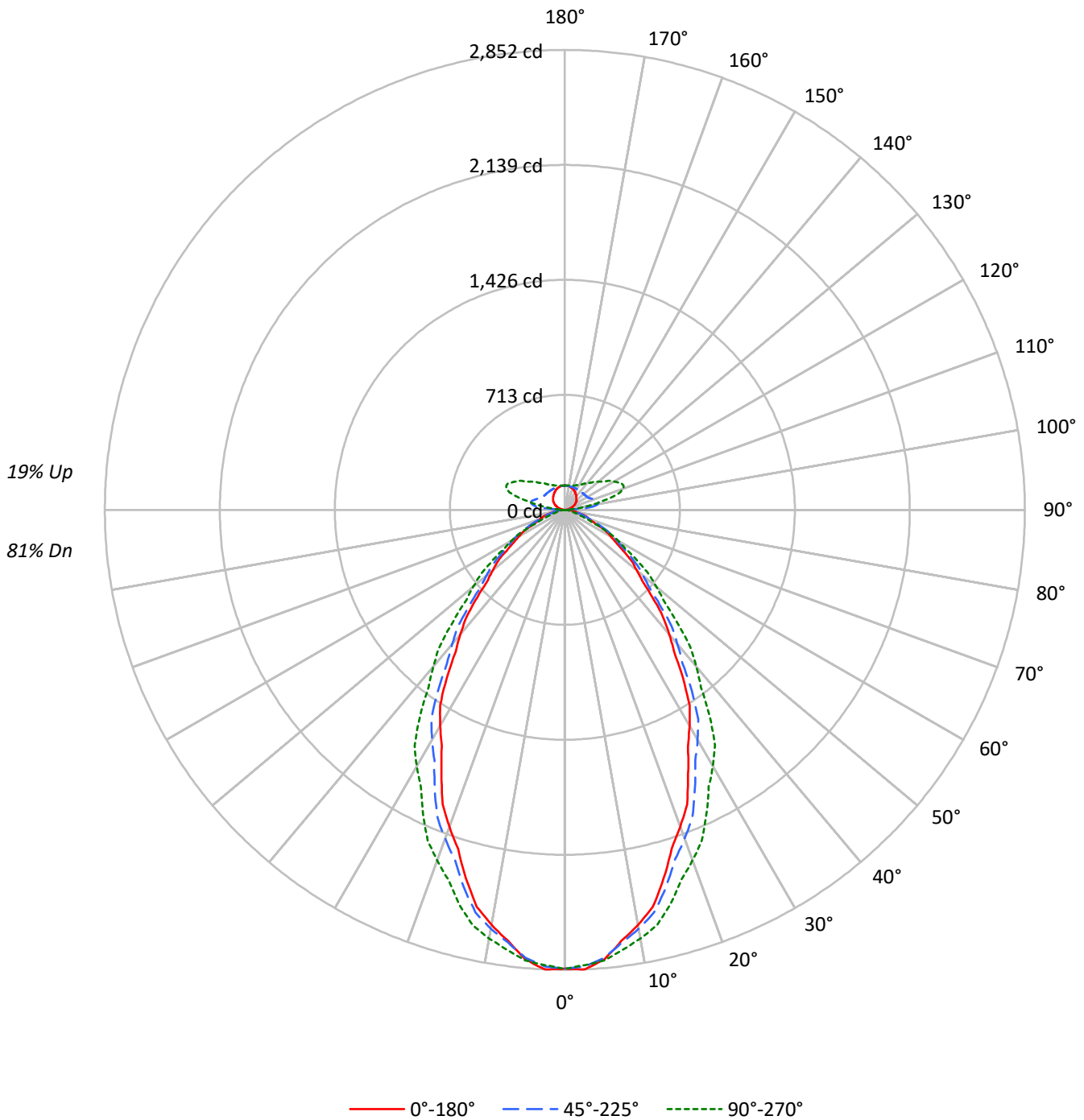
Lumens per Lamp: N/A
Luminaire Lumens: 5122.7 lumens
Efficiency: N/A
Efficacy: 103.5 lumens/watt
Spacing Criteria (0/90/45): 0.89 / 1 / 1.02
Luminous Opening: Rectangular (W 0.29' x L: 4' x H: 0')
CIE Type: Semi-Direct

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

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	26252	26252	26252
5°	25925	25832	25982
10°	24493	24715	25288
15°	22611	23135	24173
20°	20533	21305	22715
25°	18417	19420	21162
30°	16467	17544	19552
35°	14400	15441	17648
40°	12120	13082	15278
45°	10002	10866	12756
50°	8351	9104	10627
55°	7089	7813	8776
60°	6060	6774	7005
65°	4825	5696	4526
70°	4278	4446	2762
75°	3960	3604	1690
80°	3650	3315	1461
85°	3303	3038	1186



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	261.0	5.1
10°-20°	678.8	13.3
20°-30°	879.3	17.2
30°-40°	861.1	16.8
40°-50°	659.1	12.9
50°-60°	439.2	8.6
60°-70°	239.7	4.7
70°-80°	99.9	1.9
80°-90°	29.1	0.6
90°-100°	73.4	1.4
100°-110°	192.9	3.8
110°-120°	200.0	3.9
120°-130°	160.4	3.1
130°-140°	125.9	2.5
140°-150°	96.6	1.9
150°-160°	69.6	1.4
160°-170°	42.6	0.8
170°-180°	14.4	0.3
0°-30°	1819.1	35.5
0°-40°	2680.2	52.3
0°-60°	3778.5	73.8
0°-90°	4147.1	81.0
90°-120°	466.2	9.1
90°-150°	849.1	16.6
90°-180°	976.0	19.1
0°-180°	5122.7	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2845	2845	2845	2845	2845	
5°	2799	2771	2789	2796	2805	260
15°	2367	2359	2422	2488	2531	661
25°	1809	1814	1908	1991	2079	832
35°	1278	1285	1371	1463	1567	795
45°	767	781	833	896	978	598
55°	441	459	486	504	546	400
65°	221	239	261	228	207	230
75°	111	111	101	69	47	119
85°	31	31	29	19	11	34
90°	1	3	8	4	4	2
95°	10	38	126	65	44	11
105°	35	53	213	324	302	37
115°	62	75	171	341	389	61
125°	86	96	155	263	310	76
135°	102	113	150	212	240	79
145°	119	126	149	181	195	74
155°	134	138	149	163	168	62
165°	145	147	149	154	156	41
175°	150	150	150	152	152	14
180°	150	150	150	150	150	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2845.4	2845.4	2845.4	2845.4	2845.4
2.5°	2852.4	2827.0	2833.4	2833.2	2825.4
5°	2799.2	2771.1	2789.2	2795.7	2805.4
7.5°	2695.3	2674.1	2707.1	2731.5	2751.3
10°	2614.4	2596.1	2638.1	2673.7	2699.3
12.5°	2520.5	2505.1	2557.2	2604.9	2638.4
15°	2367.2	2358.7	2422.1	2488.0	2530.8
17.5°	2203.2	2199.0	2271.8	2348.7	2403.4
20°	2091.3	2090.1	2169.9	2250.0	2313.5
22.5°	1978.4	1981.1	2065.1	2148.4	2220.6
25°	1809.1	1814.0	1907.7	1990.9	2078.8
27.5°	1652.6	1654.7	1751.7	1839.5	1933.2
30°	1545.7	1551.8	1646.8	1737.7	1835.3
32.5°	1438.8	1445.9	1538.9	1632.8	1732.5
35°	1278.5	1284.6	1370.9	1463.1	1566.9
37.5°	1113.2	1121.5	1198.1	1285.3	1387.4
40°	1006.3	1018.5	1086.2	1168.4	1268.5
42.5°	903.4	918.6	981.3	1059.3	1149.6
45°	766.6	781.2	832.8	895.8	977.6
47.5°	648.7	665.6	705.2	759.4	829.3
50°	581.8	597.7	634.3	674.5	740.4
52.5°	522.9	538.8	571.3	602.3	658.5
55°	440.7	459.0	485.7	504.1	545.6
57.5°	373.3	390.9	412.0	420.3	445.5
60°	328.4	347.9	367.1	366.1	379.6
62.5°	287.4	304.0	323.1	309.9	310.6
65°	221.0	239.3	260.9	228.0	207.3
67.5°	178.5	182.4	204.8	159.0	134.3
70°	158.6	158.6	164.8	123.1	102.4
72.5°	139.6	139.6	133.8	100.1	78.4
75°	111.1	111.1	101.1	69.4	47.4
77.5°	85.6	84.7	77.4	51.8	34.5
80°	68.7	68.7	62.4	40.9	27.5
82.5°	53.7	53.7	48.4	32.0	20.5
85°	31.2	31.2	28.7	18.6	11.2
87.5°	11.2	11.6	11.5	6.7	5.8
90°	1.0	2.9	7.7	3.9	3.9
92.5°	4.1	19.5	43.2	19.1	12.4
95°	9.6	38.0	126.4	65.1	44.4
97.5°	16.8	41.7	189.1	150.4	110.8
100°	22.2	44.8	208.4	211.2	164.0
102.5°	26.8	48.0	213.8	263.1	222.7
105°	34.7	52.7	213.2	323.7	302.0
107.5°	42.8	59.4	201.1	355.2	360.5
110°	48.2	63.3	191.1	363.3	386.0



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	53.6	68.0	181.8	358.2	392.9
115°	61.8	75.0	170.8	340.7	388.9
117.5°	69.7	81.7	163.3	316.5	369.9
120°	74.3	85.6	160.2	300.3	352.2
122.5°	78.9	90.3	157.9	284.1	335.2
125°	85.9	96.3	155.3	262.6	309.7
127.5°	91.5	102.0	153.2	245.2	285.0
130°	94.6	105.9	152.5	234.3	271.1
132.5°	97.6	109.0	151.7	225.0	258.0
135°	102.3	112.7	150.5	212.0	240.3
137.5°	107.1	117.3	150.3	202.2	225.4
140°	111.0	120.4	149.6	194.4	216.1
142.5°	114.1	122.7	149.6	189.0	207.6
145°	118.7	126.2	148.6	180.8	194.9
147.5°	123.3	130.7	148.6	173.9	185.6
150°	126.4	133.0	148.6	170.0	179.5
152.5°	129.5	134.6	148.6	166.9	174.1
155°	134.1	137.9	148.6	163.2	167.9
157.5°	137.6	141.2	148.6	159.9	163.3
160°	139.9	142.7	148.6	158.3	160.2
162.5°	142.2	144.3	148.6	156.7	158.6
165°	144.7	146.6	148.6	154.4	156.3
167.5°	147.1	148.0	149.6	153.4	154.2
170°	148.6	149.5	149.6	153.4	153.4
172.5°	149.4	149.6	149.6	152.6	151.9
175°	150.5	150.5	149.6	151.5	151.5
177.5°	150.5	150.5	149.8	151.3	150.5
180°	150.5	150.5	150.5	150.5	150.5

(END OF REPORT)