

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: P519044

Luminaire Tested: **SQ4-WB-025U-125D-830-1D-UNV-STD-W-4**

Issue Date: 4/29/2021

Test Information

Test Method: LM-79-2019
Report Number: P519044
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-4
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

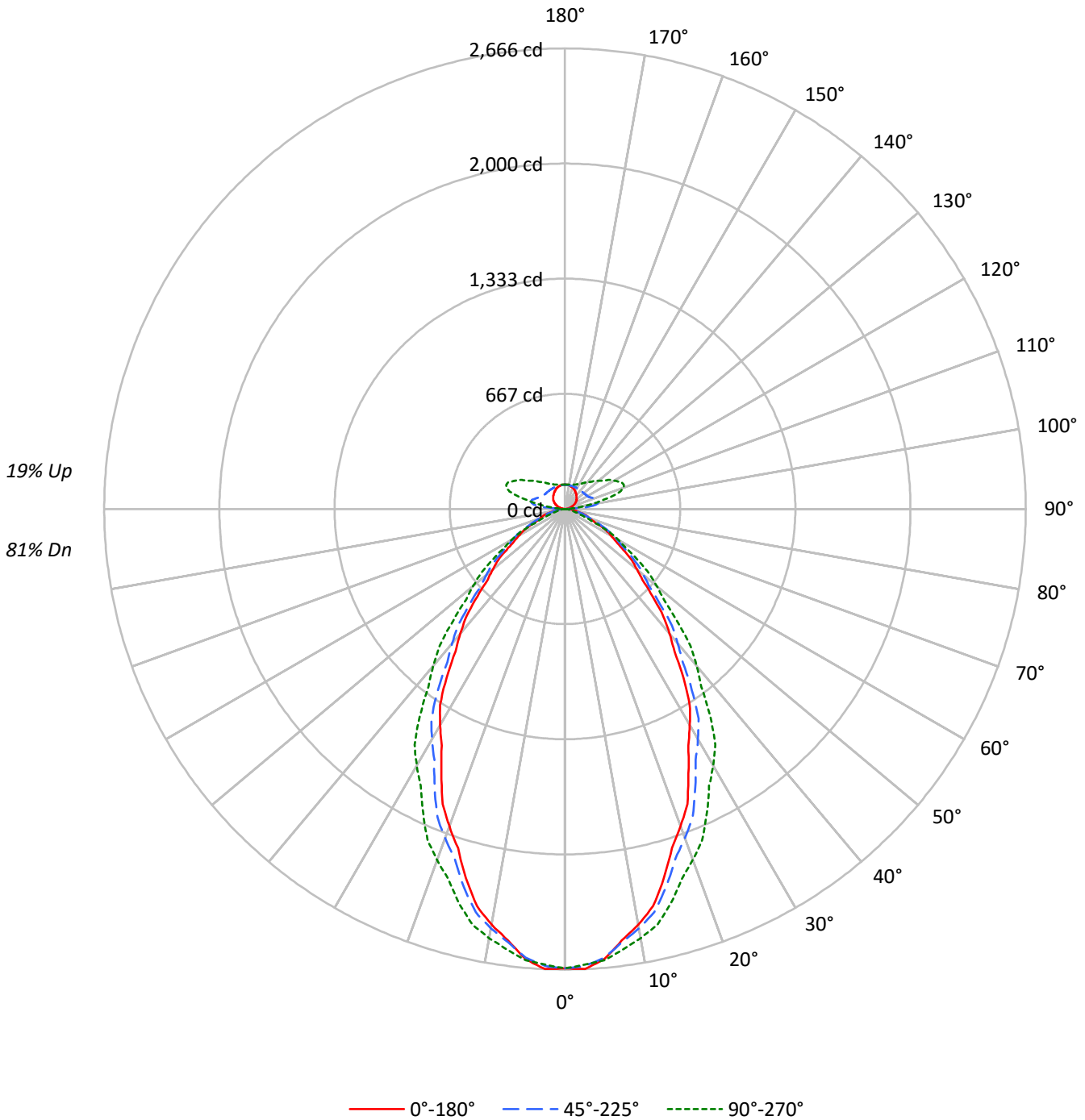
Lumens per Lamp: N/A
Luminaire Lumens: 4787.2 lumens
Efficiency: N/A
Efficacy: 96.7 lumens/watt
Spacing Criteria (0/90/45): 0.89 / 1 / 1.02
Luminous Opening: Rectangular (W 0.29' x L: 4' x H: 0')
CIE Type: Semi-Direct

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																		
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	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	24281
10°	22888	23096	23632
15°	21129	21620	22590
20°	19188	19910	21227
25°	17210	18149	19776
30°	15388	16395	18272
35°	13456	14429	16493
40°	11326	12226	14277
45°	9347	10154	11920
50°	7804	8507	9931
55°	6626	7301	8202
60°	5663	6329	6545
65°	4508	5322	4229
70°	3998	4154	2582
75°	3700	3369	1579
80°	3411	3098	1365
85°	3091	2837	1112



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	243.9	5.1
10°-20°	634.4	13.3
20°-30°	821.7	17.2
30°-40°	804.6	16.8
40°-50°	615.9	12.9
50°-60°	410.4	8.6
60°-70°	224.0	4.7
70°-80°	93.3	1.9
80°-90°	27.2	0.6
90°-100°	68.6	1.4
100°-110°	180.2	3.8
110°-120°	186.9	3.9
120°-130°	149.9	3.1
130°-140°	117.6	2.5
140°-150°	90.3	1.9
150°-160°	65.0	1.4
160°-170°	39.8	0.8
170°-180°	13.4	0.3
0°-30°	1700.0	35.5
0°-40°	2504.6	52.3
0°-60°	3530.9	73.8
0°-90°	3875.4	81.0
90°-120°	435.7	9.1
90°-150°	793.5	16.6
90°-180°	912.0	19.1
0°-180°	4787.2	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2659	2659	2659	2659	2659	
5°	2616	2590	2606	2612	2622	243
15°	2212	2204	2264	2325	2365	618
25°	1691	1695	1783	1860	1943	777
35°	1195	1200	1281	1367	1464	743
45°	716	730	778	837	914	559
55°	412	429	454	471	510	373
65°	206	224	244	213	194	215
75°	104	104	94	65	44	111
85°	29	29	27	17	10	32
90°	1	3	7	4	4	2
95°	9	36	118	61	42	10
105°	32	49	199	302	282	34
115°	58	70	160	318	363	57
125°	80	90	145	245	289	71
135°	96	105	141	198	224	74
145°	111	118	139	169	182	69
155°	125	129	139	152	157	58
165°	135	137	139	144	146	38
175°	141	141	140	142	142	13
180°	141	141	141	141	141	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2659.0	2659.0	2659.0	2659.0	2659.0
2.5°	2665.5	2641.8	2647.8	2647.6	2640.3
5°	2615.8	2589.6	2606.5	2612.5	2621.7
7.5°	2518.7	2498.9	2529.7	2552.5	2571.0
10°	2443.1	2426.0	2465.3	2498.5	2522.5
12.5°	2355.4	2341.0	2389.7	2434.3	2465.5
15°	2212.1	2204.1	2263.5	2325.0	2365.0
17.5°	2058.8	2054.9	2123.0	2194.9	2246.0
20°	1954.3	1953.1	2027.8	2102.6	2162.0
22.5°	1848.8	1851.3	1929.8	2007.6	2075.2
25°	1690.6	1695.2	1782.8	1860.5	1942.6
27.5°	1544.3	1546.3	1636.9	1719.0	1806.6
30°	1444.4	1450.1	1538.9	1623.8	1715.1
32.5°	1344.5	1351.2	1438.1	1525.9	1619.0
35°	1194.7	1200.4	1281.1	1367.3	1464.3
37.5°	1040.3	1048.0	1119.6	1201.1	1296.5
40°	940.4	951.8	1015.1	1091.9	1185.4
42.5°	844.2	858.4	917.1	989.9	1074.3
45°	716.4	730.1	778.2	837.1	913.6
47.5°	606.2	622.0	659.0	709.7	774.9
50°	543.7	558.5	592.7	630.3	691.9
52.5°	488.6	503.5	533.9	562.9	615.3
55°	411.9	429.0	453.9	471.1	509.9
57.5°	348.9	365.3	385.0	392.8	416.3
60°	306.9	325.1	343.0	342.1	354.7
62.5°	268.6	284.1	302.0	289.6	290.3
65°	206.5	223.6	243.8	213.1	193.7
67.5°	166.8	170.5	191.3	148.6	125.5
70°	148.2	148.2	154.0	115.1	95.7
72.5°	130.4	130.4	125.1	93.6	73.3
75°	103.8	103.8	94.5	64.9	44.3
77.5°	80.0	79.1	72.3	48.4	32.2
80°	64.2	64.2	58.3	38.2	25.7
82.5°	50.2	50.2	45.3	29.9	19.1
85°	29.2	29.2	26.8	17.3	10.5
87.5°	10.4	10.8	10.8	6.3	5.4
90°	0.9	2.7	7.2	3.6	3.6
92.5°	3.8	18.2	40.4	17.9	11.5
95°	9.0	35.5	118.1	60.9	41.5
97.5°	15.7	39.0	176.7	140.5	103.5
100°	20.7	41.9	194.8	197.4	153.3
102.5°	25.1	44.8	199.8	245.8	208.1
105°	32.5	49.2	199.3	302.5	282.2
107.5°	40.0	55.6	187.9	331.9	336.9
110°	45.1	59.2	178.5	339.5	360.7



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	50.1	63.5	169.9	334.7	367.2
115°	57.7	70.1	159.6	318.4	363.4
117.5°	65.1	76.4	152.6	295.8	345.7
120°	69.4	80.0	149.7	280.6	329.1
122.5°	73.8	84.3	147.5	265.5	313.2
125°	80.3	89.9	145.2	245.4	289.4
127.5°	85.5	95.4	143.2	229.2	266.4
130°	88.4	98.9	142.5	219.0	253.4
132.5°	91.3	101.8	141.7	210.3	241.1
135°	95.6	105.3	140.7	198.1	224.5
137.5°	100.1	109.6	140.5	188.9	210.6
140°	103.7	112.5	139.8	181.7	202.0
142.5°	106.6	114.7	139.8	176.6	194.0
145°	110.9	118.0	138.9	168.9	182.1
147.5°	115.2	122.1	138.9	162.6	173.5
150°	118.1	124.3	138.9	158.9	167.7
152.5°	121.0	125.8	138.9	156.0	162.7
155°	125.3	128.9	138.9	152.5	156.9
157.5°	128.6	131.9	138.9	149.4	152.6
160°	130.7	133.4	138.9	147.9	149.7
162.5°	132.9	134.8	138.9	146.5	148.2
165°	135.3	137.0	138.9	144.3	146.1
167.5°	137.4	138.3	139.8	143.4	144.1
170°	138.9	139.7	139.8	143.4	143.4
172.5°	139.6	139.8	139.8	142.6	141.9
175°	140.7	140.7	139.8	141.6	141.6
177.5°	140.7	140.7	139.9	141.4	140.7
180°	140.7	140.7	140.7	140.7	140.7

(END OF REPORT)