

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: P519339

Luminaire Tested: **SQ4-WB-0U-125D-840-1D-UNV-STD-W-12**

Issue Date: 4/29/2021

Test Information

Test Method: LM-79-2019
Report Number: P519339
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-840-1D-UNV-STD-W-12
Description: CORELITE SQ4 SUSPENDED LED LUMINAIRE WITH WHITE BAFFLE
DOWNLIGHT 1250 LUMENS PER FOOT
DIRECT ONLY
Light Source: 4000K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 12438.8 lumens
Efficiency: N/A
Efficacy: 88.3 lumens/watt
Spacing Criteria (0/90/45): 0.89 / 1 / 1.02
Luminous Opening: Rectangular (W 0.29' x L: 12' x H: 0')
CIE Type: Direct

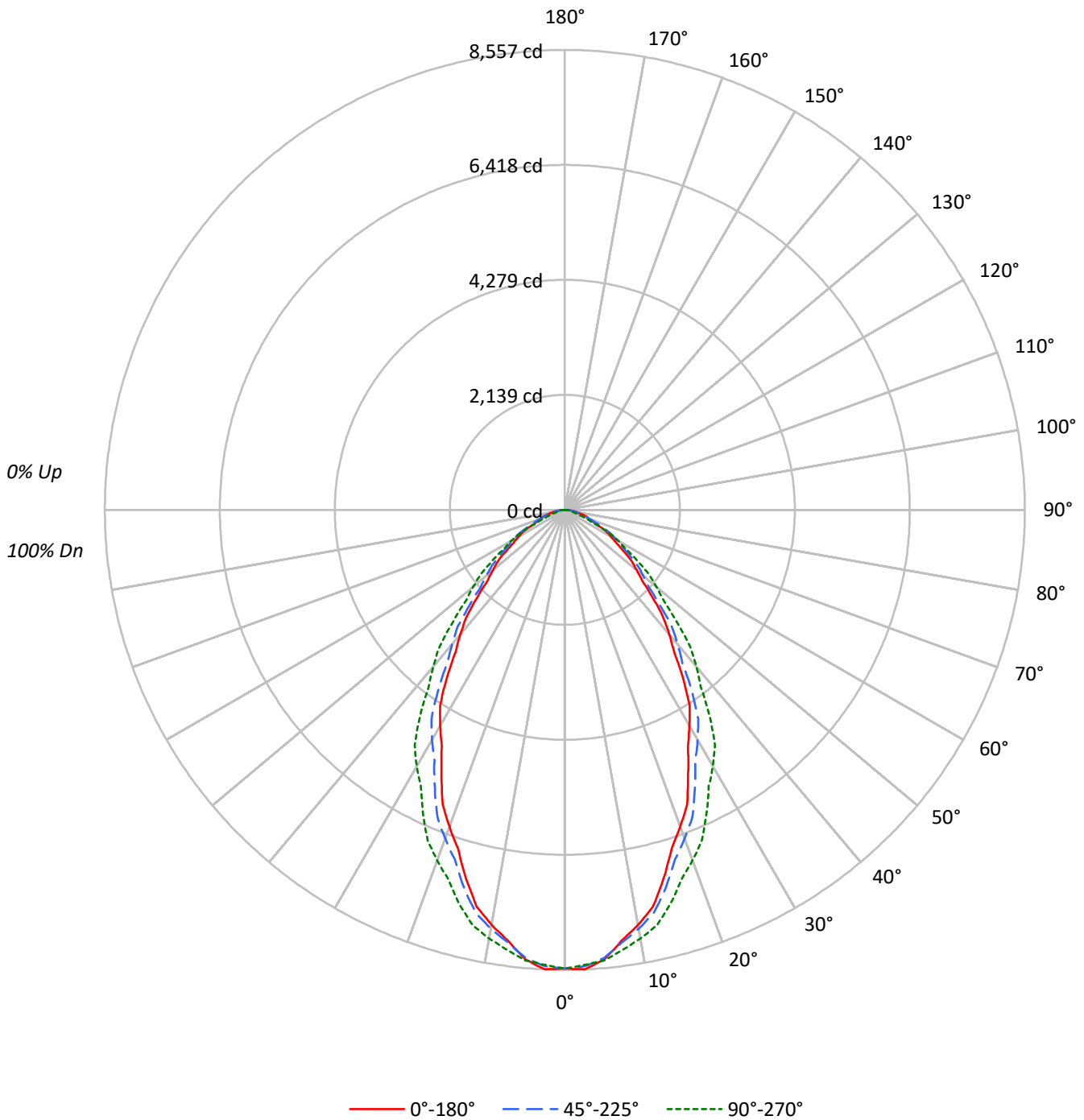
Input Watts (W): 140.8
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



TEST NUMBER: P519339

CATALOG NUMBER: SQ4-WB-0U-125D-840-1D-UNV-STD-W-12

Luminous Intensity Polar Plot





TEST NUMBER: P519339

CATALOG NUMBER: SQ4-WB-OU-125D-840-1D-UNV-STD-W-12

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°	26252	26252	26252
5°	25925	25832	25982
10°	24493	24715	25288
15°	22611	23135	24173
20°	20533	21305	22715
25°	18417	19421	21162
30°	16467	17544	19553
35°	14400	15440	17648
40°	12120	13083	15278
45°	10002	10866	12756
50°	8351	9104	10627
55°	7089	7812	8776
60°	6059	6773	7004
65°	4825	5696	4525
70°	4277	4446	2761
75°	3962	3605	1691
80°	3648	3317	1459
85°	3303	3038	1189



TEST NUMBER: P519339

CATALOG NUMBER: SQ4-WB-OU-125D-840-1D-UNV-STD-W-12

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	783.0	6.3
10°-20°	2036.5	16.4
20°-30°	2637.9	21.2
30°-40°	2583.2	20.8
40°-50°	1977.3	15.9
50°-60°	1317.6	10.6
60°-70°	719.0	5.8
70°-80°	299.6	2.4
80°-90°	84.8	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°	5457.4	43.9
0°-40°	8040.6	64.6
0°-60°	11335.4	91.1
0°-90°	12438.8	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	12438.8	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	8536	8536	8536	8536	8536	
5°	8398	8313	8368	8387	8416	781
15°	7102	7076	7266	7464	7592	1983
25°	5427	5442	5723	5973	6236	2496
35°	3836	3854	4113	4389	4701	2384
45°	2300	2344	2498	2687	2933	1793
55°	1322	1377	1457	1512	1637	1199
65°	663	718	783	684	622	689
75°	333	333	303	208	142	356
85°	94	94	86	56	34	106
90°	0	0	0	0	0	



TEST NUMBER: P519339

CATALOG NUMBER: SQ4-WB-OU-125D-840-1D-UNV-STD-W-12

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	8536.2	8536.2	8536.2	8536.2	8536.2
2.5°	8557.2	8481.0	8500.2	8499.7	8476.3
5°	8397.6	8313.4	8367.6	8387.0	8416.3
7.5°	8086.0	8022.2	8121.2	8194.4	8253.8
10°	7843.2	7788.3	7914.4	8021.0	8097.9
12.5°	7561.6	7515.4	7671.7	7814.8	7915.2
15°	7101.6	7076.0	7266.4	7464.1	7592.3
17.5°	6609.5	6597.0	6815.5	7046.2	7210.2
20°	6273.8	6270.2	6509.8	6750.1	6940.6
22.5°	5935.2	5943.3	6195.2	6445.1	6661.9
25°	5427.3	5442.0	5723.2	5972.7	6236.4
27.5°	4957.7	4964.2	5255.1	5518.4	5799.7
30°	4637.0	4655.3	4940.4	5213.0	5506.0
32.5°	4316.4	4337.6	4616.8	4898.5	5197.4
35°	3835.5	3853.8	4112.6	4389.4	4700.7
37.5°	3339.6	3364.5	3594.3	3855.9	4162.1
40°	3018.9	3055.6	3258.7	3505.2	3805.5
42.5°	2710.3	2755.7	2944.0	3177.9	3448.9
45°	2299.8	2343.7	2498.3	2687.4	2932.8
47.5°	1946.2	1996.7	2115.5	2278.3	2487.8
50°	1745.4	1793.1	1902.8	2023.4	2221.1
52.5°	1568.6	1616.3	1714.0	1807.0	1975.4
55°	1322.2	1377.1	1457.0	1512.3	1636.8
57.5°	1119.9	1172.7	1236.0	1261.0	1336.4
60°	985.1	1043.7	1101.2	1098.4	1138.7
62.5°	862.2	912.0	969.4	929.7	931.9
65°	663.0	717.9	782.8	684.0	621.8
67.5°	535.6	547.3	614.3	477.0	403.0
70°	475.7	475.7	494.4	369.4	307.1
72.5°	418.8	418.8	401.5	300.4	235.2
75°	333.4	333.4	303.4	208.3	142.3
77.5°	256.9	254.0	232.2	155.4	103.4
80°	206.0	206.0	187.3	122.7	82.4
82.5°	161.1	161.1	145.3	95.9	61.4
85°	93.6	93.6	86.1	55.7	33.7
87.5°	33.0	33.0	30.0	17.9	15.0
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)