

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: P519264

Luminaire Tested: **SQ4-WB-0U-050D-835-1D-UNV-STD-W-4**

Issue Date: 4/29/2021

Test Information

Test Method: LM-79-2019
Report Number: P519264
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-050D-835-1D-UNV-STD-W-4
Description: CORELITE SQ4 SUSPENDED LED LUMINAIRE WITH WHITE BAFFLE
DOWNLIGHT 500 LUMENS PER FOOT
DIRECT ONLY
Light Source: 3500K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

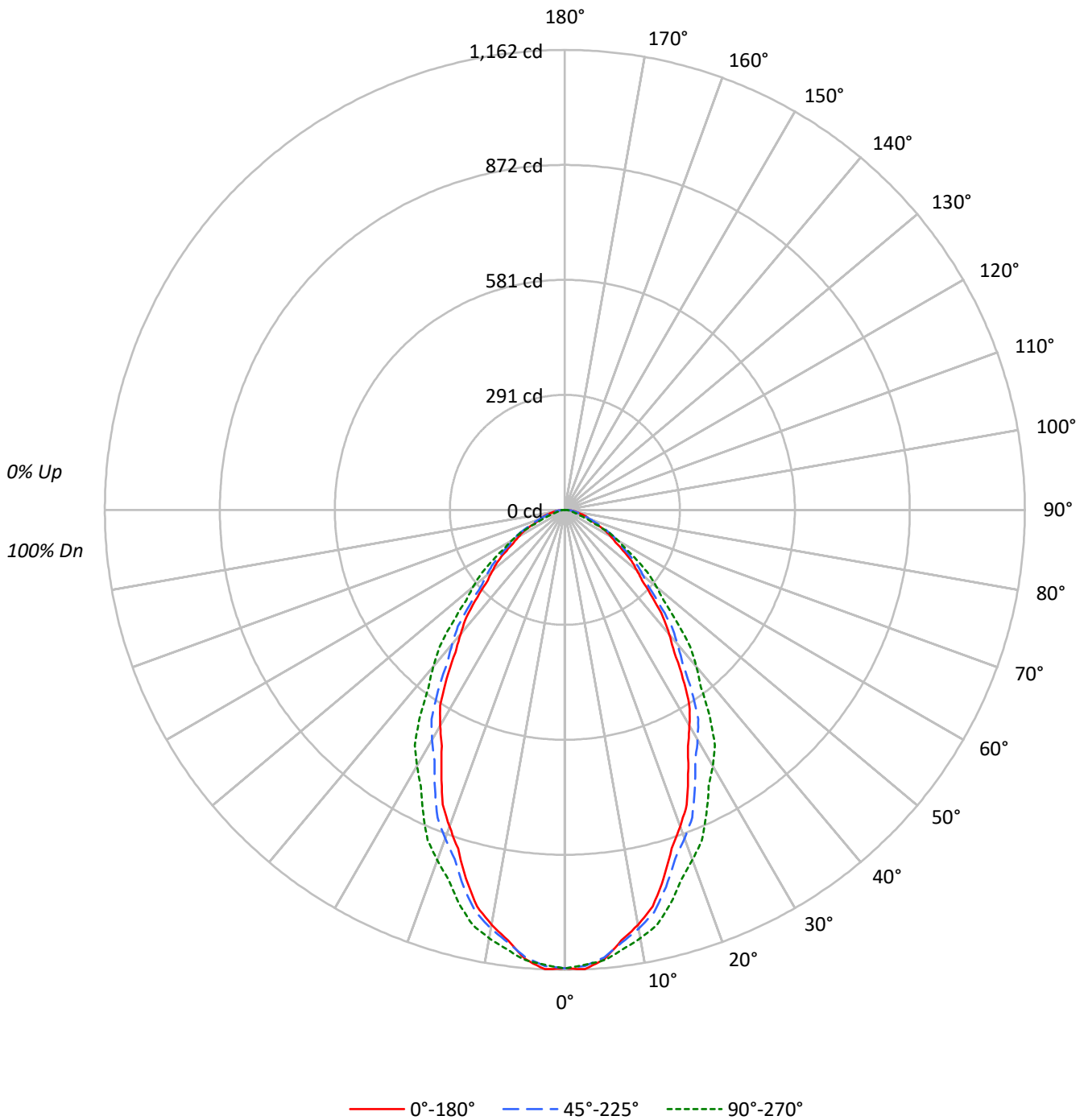
Lumens per Lamp: N/A
Luminaire Lumens: 1688.3 lumens
Efficiency: N/A
Efficacy: 104.2 lumens/watt
Spacing Criteria (0/90/45): 0.89 / 1 / 1.02
Luminous Opening: Rectangular (W 0.29' x L: 4' x H: 0')
CIE Type: Direct

Input Watts (W): 16.2
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°	10689	10689	10689
5°	10556	10518	10579
10°	9974	10064	10297
15°	9207	9421	9843
20°	8360	8675	9249
25°	7499	7908	8617
30°	6705	7144	7961
35°	5864	6287	7186
40°	4936	5327	6221
45°	4072	4425	5194
50°	3400	3707	4328
55°	2887	3182	3574
60°	2467	2759	2851
65°	1965	2321	1843
70°	1743	1810	1125
75°	1611	1469	688
80°	1488	1350	595
85°	1344	1239	487



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	106.3	6.3
10°-20°	276.4	16.4
20°-30°	358.0	21.2
30°-40°	350.6	20.8
40°-50°	268.4	15.9
50°-60°	178.8	10.6
60°-70°	97.6	5.8
70°-80°	40.7	2.4
80°-90°	11.5	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°	740.7	43.9
0°-40°	1091.3	64.6
0°-60°	1538.6	91.1
0°-90°	1688.3	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1688.3	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1159	1159	1159	1159	1159	
5°	1140	1128	1136	1138	1142	106
15°	964	960	986	1013	1030	269
25°	737	739	777	811	846	339
35°	521	523	558	596	638	324
45°	312	318	339	365	398	243
55°	180	187	198	205	222	163
65°	90	97	106	93	84	94
75°	45	45	41	28	19	48
85°	13	13	12	8	5	14
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1158.6	1158.6	1158.6	1158.6	1158.6
2.5°	1161.5	1151.1	1153.7	1153.7	1150.5
5°	1139.8	1128.4	1135.7	1138.4	1142.3
7.5°	1097.5	1088.8	1102.3	1112.2	1120.3
10°	1064.6	1057.1	1074.2	1088.7	1099.1
12.5°	1026.3	1020.1	1041.3	1060.7	1074.3
15°	963.9	960.4	986.3	1013.1	1030.5
17.5°	897.1	895.4	925.1	956.4	978.6
20°	851.5	851.0	883.6	916.2	942.0
22.5°	805.6	806.7	840.9	874.8	904.2
25°	736.6	738.6	776.8	810.7	846.5
27.5°	672.9	673.8	713.3	749.0	787.2
30°	629.4	631.9	670.6	707.6	747.3
32.5°	585.9	588.7	626.6	664.9	705.4
35°	520.6	523.1	558.2	595.8	638.0
37.5°	453.3	456.7	487.8	523.4	564.9
40°	409.8	414.7	442.3	475.8	516.5
42.5°	367.9	374.0	399.6	431.3	468.1
45°	312.1	318.1	339.1	364.8	398.1
47.5°	264.2	271.0	287.1	309.2	337.7
50°	236.9	243.4	258.3	274.6	301.5
52.5°	212.9	219.4	232.6	245.3	268.1
55°	179.5	186.9	197.8	205.3	222.2
57.5°	152.0	159.2	167.8	171.2	181.4
60°	133.7	141.7	149.5	149.1	154.5
62.5°	117.0	123.8	131.6	126.2	126.5
65°	90.0	97.4	106.3	92.8	84.4
67.5°	72.7	74.3	83.4	64.7	54.7
70°	64.6	64.6	67.1	50.1	41.7
72.5°	56.8	56.8	54.5	40.8	31.9
75°	45.2	45.2	41.2	28.3	19.3
77.5°	34.9	34.5	31.5	21.1	14.0
80°	28.0	28.0	25.4	16.7	11.2
82.5°	21.9	21.9	19.7	13.0	8.3
85°	12.7	12.7	11.7	7.6	4.6
87.5°	4.5	4.5	4.1	2.4	2.0
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)