

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: P519314

Luminaire Tested: **SQ4-WB-0U-100D-835-1D-UNV-STD-W-8**

Issue Date: 4/29/2021

Test Information

Test Method: LM-79-2019
Report Number: P519314
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-100D-835-1D-UNV-STD-W-8
Description: CORELITE SQ4 SUSPENDED LED LUMINAIRE WITH WHITE BAFFLE
DOWNLIGHT 1000 LUMENS PER FOOT
DIRECT ONLY
Light Source: 3500K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 6580.8 lumens
Efficiency: N/A
Efficacy: 91.8 lumens/watt
Spacing Criteria (0/90/45): 0.89 / 1 / 1.02
Luminous Opening: Rectangular (W 0.29' x L: 8' x H: 0')
CIE Type: Direct

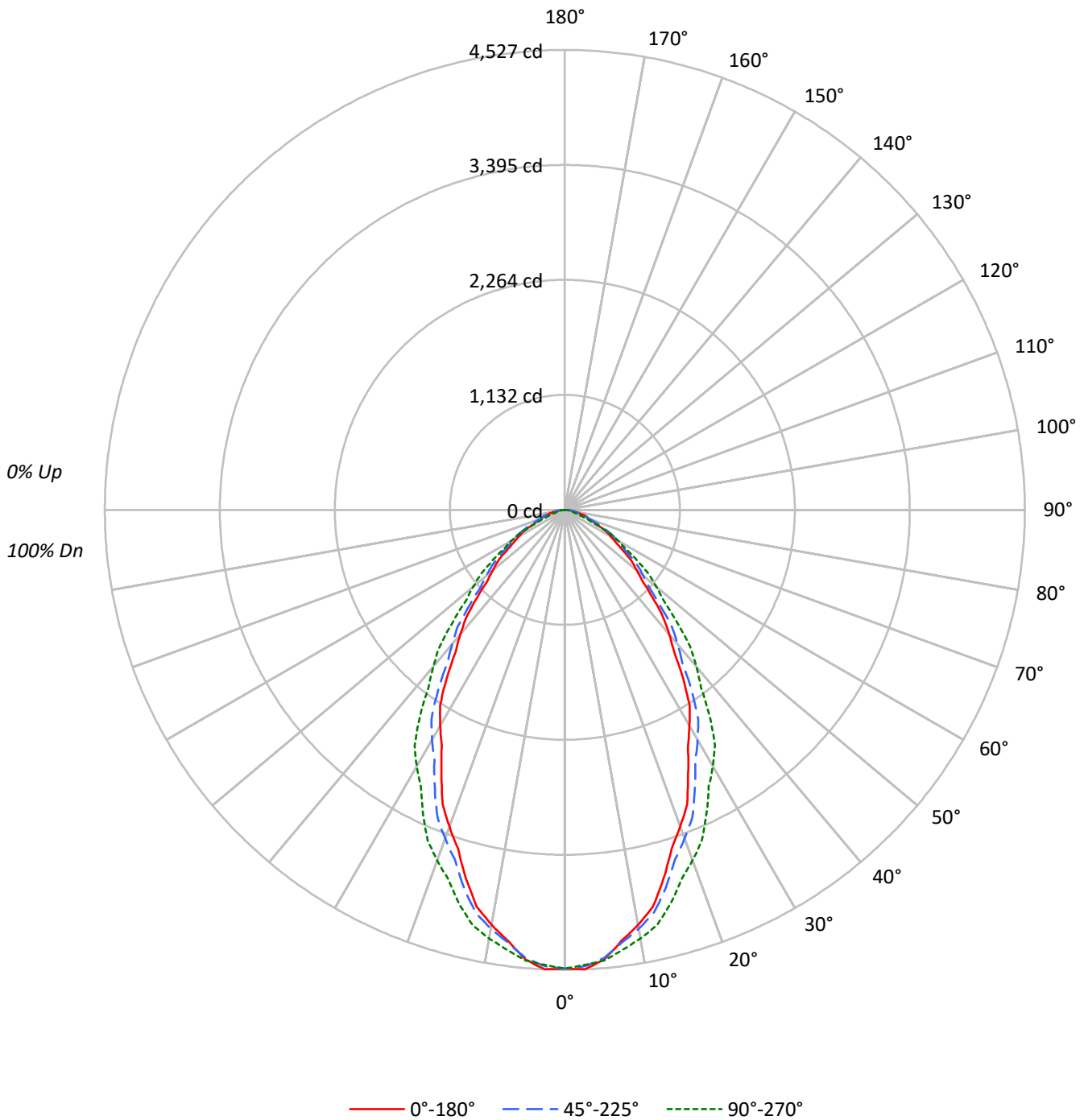
Input Watts (W): 71.7
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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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°	20833	20833	20833
5°	20573	20500	20619
10°	19437	19613	20068
15°	17943	18360	19183
20°	16294	16907	18026
25°	14615	15412	16794
30°	13068	13923	15517
35°	11428	12253	14005
40°	9618	10382	12124
45°	7938	8623	10122
50°	6627	7225	8433
55°	5626	6199	6965
60°	4809	5375	5558
65°	3828	4521	3590
70°	3395	3528	2192
75°	3144	2861	1342
80°	2896	2633	1158
85°	2620	2414	942



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	414.2	6.3
10°-20°	1077.4	16.4
20°-30°	1395.6	21.2
30°-40°	1366.6	20.8
40°-50°	1046.1	15.9
50°-60°	697.1	10.6
60°-70°	380.4	5.8
70°-80°	158.5	2.4
80°-90°	44.9	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°	2887.3	43.9
0°-40°	4253.9	64.6
0°-60°	5997.0	91.1
0°-90°	6580.8	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	6580.8	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	4516	4516	4516	4516	4516	
5°	4443	4398	4427	4437	4453	413
15°	3757	3744	3844	3949	4017	1049
25°	2871	2879	3028	3160	3299	1320
35°	2029	2039	2176	2322	2487	1262
45°	1217	1240	1322	1422	1552	949
55°	700	729	771	800	866	634
65°	351	380	414	362	329	365
75°	176	176	160	110	75	188
85°	50	50	46	30	18	56
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	4516.1	4516.1	4516.1	4516.1	4516.1
2.5°	4527.2	4486.9	4497.1	4496.8	4484.4
5°	4442.8	4398.2	4426.9	4437.2	4452.7
7.5°	4277.9	4244.2	4296.5	4335.3	4366.7
10°	4149.5	4120.4	4187.1	4243.6	4284.2
12.5°	4000.5	3976.1	4058.7	4134.5	4187.5
15°	3757.1	3743.6	3844.3	3948.9	4016.7
17.5°	3496.8	3490.2	3605.7	3727.8	3814.6
20°	3319.2	3317.3	3444.0	3571.2	3671.9
22.5°	3140.1	3144.3	3277.6	3409.8	3524.5
25°	2871.4	2879.1	3027.9	3159.9	3299.4
27.5°	2622.9	2626.4	2780.2	2919.5	3068.3
30°	2453.2	2462.9	2613.7	2758.0	2913.0
32.5°	2283.6	2294.8	2442.5	2591.6	2749.7
35°	2029.2	2038.9	2175.8	2322.2	2486.9
37.5°	1766.8	1780.0	1901.6	2040.0	2202.0
40°	1597.2	1616.6	1724.0	1854.4	2013.3
42.5°	1433.9	1457.9	1557.5	1681.3	1824.7
45°	1216.7	1240.0	1321.7	1421.8	1551.6
47.5°	1029.6	1056.4	1119.2	1205.4	1316.2
50°	923.4	948.6	1006.7	1070.5	1175.1
52.5°	829.9	855.1	906.8	956.0	1045.1
55°	699.5	728.6	770.8	800.1	866.0
57.5°	592.5	620.4	653.9	667.1	707.0
60°	521.2	552.2	582.6	581.1	602.4
62.5°	456.2	482.5	512.8	491.9	493.0
65°	350.7	379.8	414.2	361.9	328.9
67.5°	283.4	289.6	325.0	252.4	213.2
70°	251.7	251.7	261.6	195.4	162.5
72.5°	221.5	221.5	212.4	158.9	124.4
75°	176.4	176.4	160.5	110.2	75.3
77.5°	135.9	134.4	122.9	82.2	54.7
80°	109.0	109.0	99.1	64.9	43.6
82.5°	85.2	85.2	76.9	50.7	32.5
85°	49.5	49.5	45.6	29.5	17.8
87.5°	17.4	17.4	15.9	9.5	7.9
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)