

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: P519026

Luminaire Tested: **SQ4-WB-025U-100D-835-1D-UNV-STD-W-8**

Issue Date: 4/29/2021

Test Information

Test Method: LM-79-2019
Report Number: P519026
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-100D-835-1D-UNV-STD-W-8
Description: CORELITE SQ4 SUSPENDED LED LUMINAIRE WITH WHITE BAFFLE
DOWNLIGHT 1000 LUMENS PER FOOT
UPLIGHT 250 LUMENS PER FOOT
Light Source: 3500K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

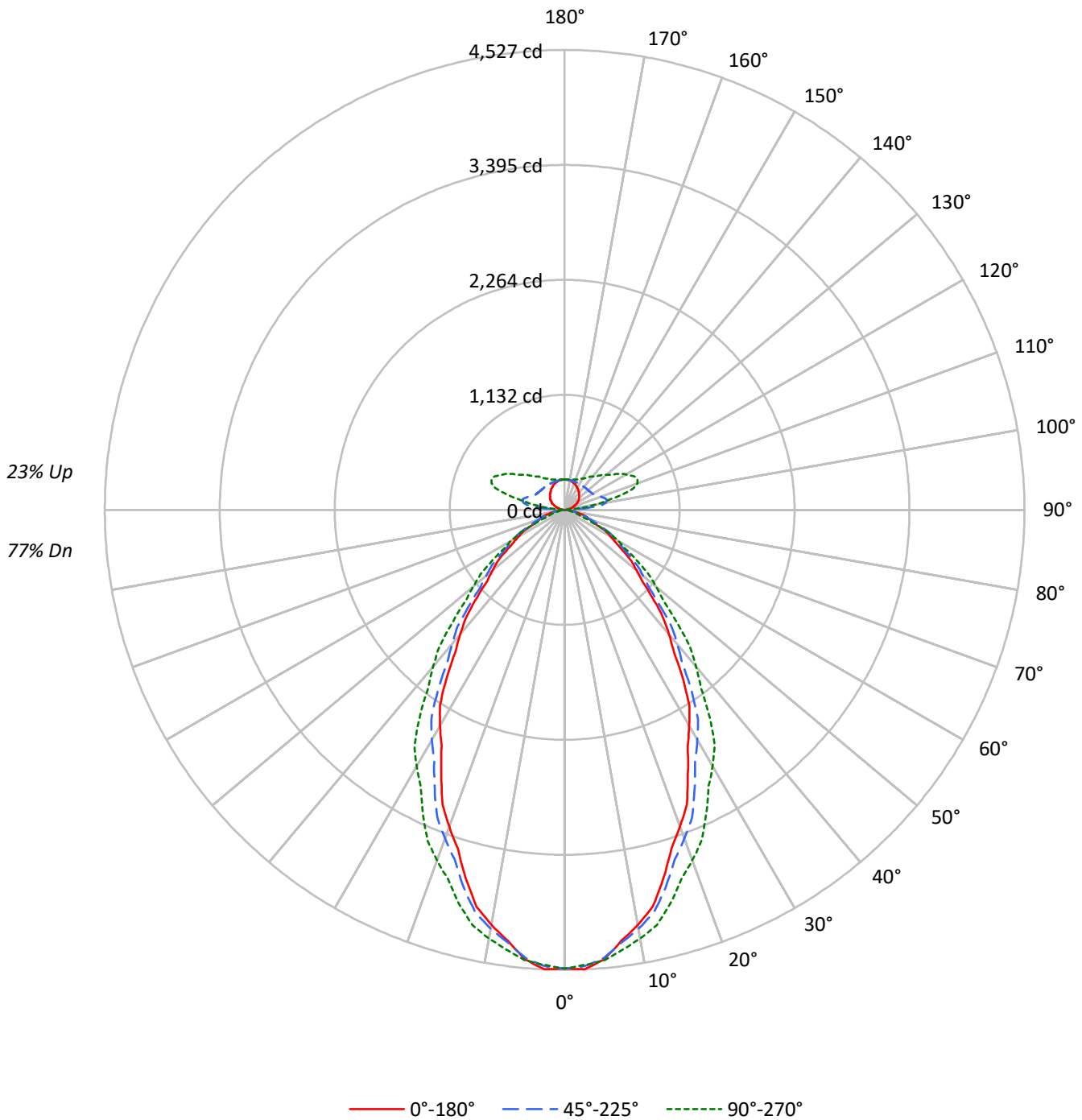
Lumens per Lamp: N/A
Luminaire Lumens: 8514.2 lumens
Efficiency: N/A
Efficacy: 103.6 lumens/watt
Spacing Criteria (0/90/45): 0.89 / 1 / 1.02
Luminous Opening: Rectangular (W 0.29' x L: 8' x H: 0')
CIE Type: Semi-Direct

Input Watts (W): 82.2
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	114	114	114	114	108	108	108	108	99	99	99	89	89	89	81	81	81	77
1	106	102	98	95	101	97	94	92	89	87	85	82	80	78	75	73	72	69
2	98	91	86	81	93	87	82	78	80	76	73	74	71	68	68	66	64	60
3	90	82	75	70	86	79	73	68	73	68	64	67	63	60	62	59	56	53
4	84	74	67	61	80	71	65	59	66	61	56	61	57	53	57	53	50	48
5	78	67	60	54	74	65	58	53	60	54	50	56	51	48	52	48	45	43
6	73	61	54	48	69	59	52	47	55	49	45	51	47	43	48	44	41	39
7	68	56	49	43	65	54	47	42	51	45	41	48	43	39	45	40	37	35
8	63	52	44	39	61	50	43	38	47	41	37	44	39	35	41	37	34	32
9	60	48	41	36	57	46	40	35	44	38	34	41	36	33	39	34	31	29
10	56	44	37	33	54	43	37	32	41	35	31	38	33	30	36	32	29	27

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	4.9
10°-20°	1077.4	12.7
20°-30°	1395.6	16.4
30°-40°	1366.6	16.1
40°-50°	1046.1	12.3
50°-60°	697.1	8.2
60°-70°	380.4	4.5
70°-80°	158.5	1.9
80°-90°	46.5	0.5
90°-100°	145.3	1.7
100°-110°	381.9	4.5
110°-120°	396.0	4.7
120°-130°	317.6	3.7
130°-140°	249.2	2.9
140°-150°	191.3	2.2
150°-160°	137.8	1.6
160°-170°	84.3	1.0
170°-180°	28.5	0.3
0°-30°	2887.3	33.9
0°-40°	4253.9	50.0
0°-60°	5997.0	70.4
0°-90°	6582.4	77.3
90°-120°	923.2	10.8
90°-150°	1681.3	19.7
90°-180°	1932.0	22.7
0°-180°	8514.2	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	54
90°	2	6	15	8	8	4
95°	19	75	250	129	88	21
105°	69	104	422	641	598	73
115°	122	148	338	675	770	121
125°	170	191	308	520	613	151
135°	202	223	298	420	476	157
145°	235	250	294	358	386	147
155°	266	273	294	323	332	122
165°	287	290	294	306	310	81
175°	298	298	296	300	300	28
180°	298	298	298	298	298	

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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°	17.8	18.6	18.9	11.0	9.5
90°	1.9	5.6	15.3	7.6	7.6
92.5°	8.0	38.7	85.6	37.9	24.5
95°	19.1	75.1	250.3	129.0	87.9
97.5°	33.2	82.6	374.5	297.8	219.3
100°	43.9	88.8	412.7	418.2	324.8
102.5°	53.1	95.0	423.4	520.9	441.0
105°	68.8	104.3	422.2	641.0	598.0
107.5°	84.8	117.7	398.2	703.3	713.8
110°	95.5	125.4	378.3	719.4	764.2



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	106.2	134.6	360.0	709.2	778.0
115°	122.3	148.4	338.2	674.7	770.0
117.5°	137.9	161.9	323.3	626.8	732.5
120°	147.1	169.5	317.2	594.6	697.4
122.5°	156.3	178.7	312.6	562.5	663.7
125°	170.0	190.6	307.6	519.9	613.3
127.5°	181.1	202.0	303.4	485.5	564.4
130°	187.2	209.7	301.9	464.0	536.9
132.5°	193.4	215.8	300.3	445.5	510.9
135°	202.5	223.1	298.0	419.7	475.7
137.5°	212.1	232.2	297.7	400.4	446.3
140°	219.7	238.4	296.1	385.0	428.0
142.5°	225.8	243.0	296.1	374.2	411.2
145°	235.0	249.9	294.2	357.9	385.9
147.5°	244.2	258.7	294.2	344.4	367.6
150°	250.3	263.4	294.2	336.7	355.4
152.5°	256.4	266.5	294.2	330.5	344.7
155°	265.6	273.0	294.2	323.1	332.4
157.5°	272.4	279.5	294.2	316.5	323.3
160°	277.0	282.6	294.2	313.4	317.2
162.5°	281.6	285.7	294.2	310.4	314.1
165°	286.6	290.3	294.2	305.8	309.5
167.5°	291.2	293.0	296.1	303.8	305.3
170°	294.2	296.1	296.1	303.8	303.8
172.5°	295.8	296.1	296.1	302.2	300.7
175°	298.0	298.0	296.1	300.0	300.0
177.5°	298.0	298.0	296.5	299.5	298.0
180°	298.0	298.0	298.0	298.0	298.0

(END OF REPORT)