

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: P518569

Luminaire Tested: **SQ4-BB-075U-125D-835-1D-UNV-STD-W-6**

Issue Date: 4/29/2021

Test Information

Test Method: LM-79-2019
Report Number: P518569
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1910-536-22, G2-2009-966-12)
Test Lab: INNOVATION CENTER
Issue Date: 4/29/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: CORELITE
Catalog Number: SQ4-BB-075U-125D-835-1D-UNV-STD-W-6
Description: CORELITE SQ4 SUSPENDED LED LUMINAIRE WITH BLACK BAFFLE
DOWNLIGHT 1250 LUMENS PER FOOT
UPLIGHT 750 LUMENS PER FOOT
Light Source: 3500K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

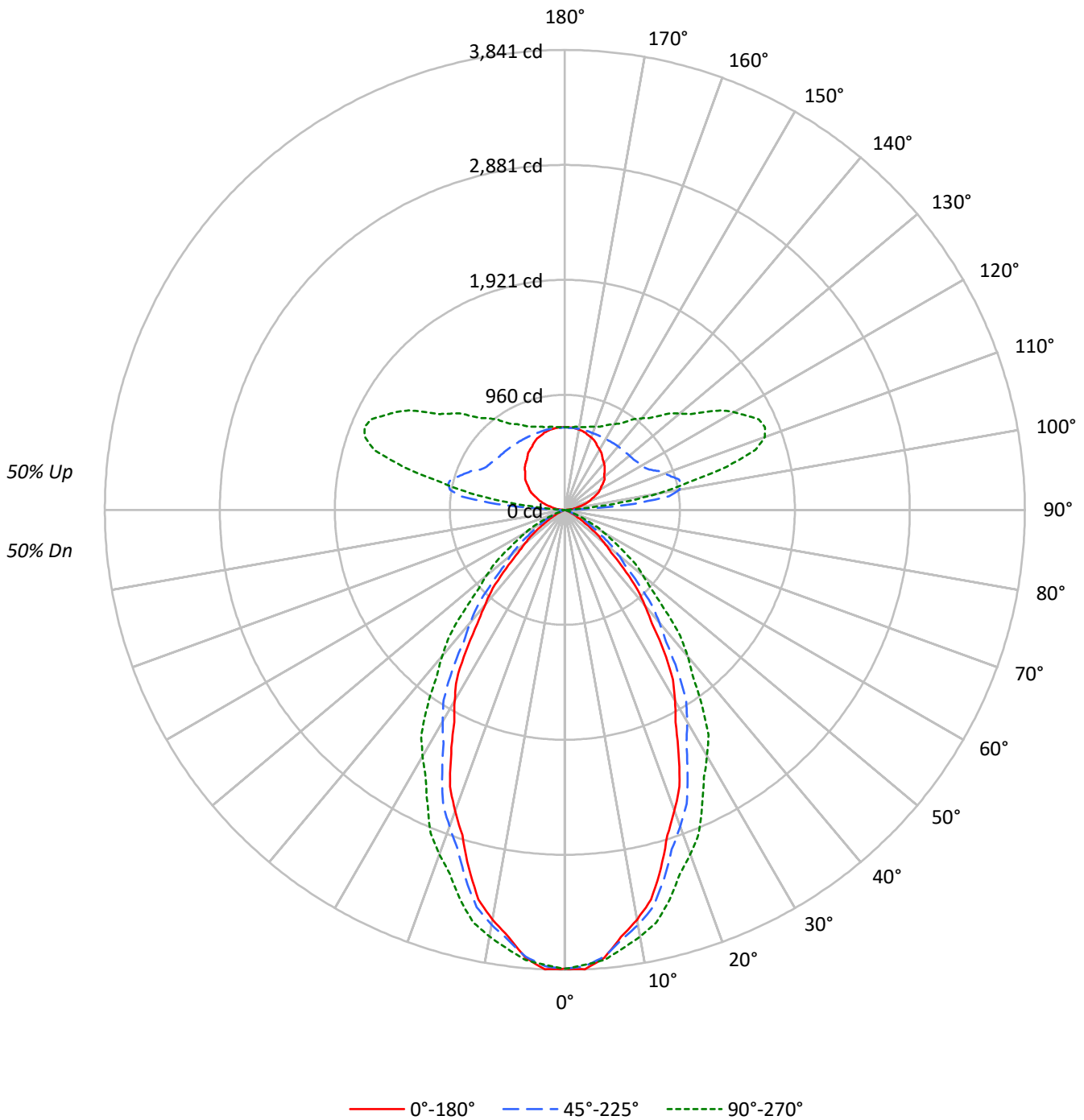
Lumens per Lamp: N/A
Luminaire Lumens: 9063.9 lumens
Efficiency: N/A
Efficacy: 93.2 lumens/watt
Spacing Criteria (0/90/45): 0.85 / 0.97 / 0.97
Luminous Opening: Rectangular (W 0.29' x L: 6' x H: 0')
CIE Type: General Diffuse

Input Watts (W): 97.3
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	107	107	107	107	99	99	99	99	84	84	84	69	69	69	57	57	57	50
1	100	96	93	90	92	89	86	84	76	74	72	64	63	61	53	52	51	46
2	92	86	81	77	85	80	76	72	69	66	63	58	56	54	49	47	46	42
3	85	77	71	66	79	72	67	62	62	58	55	53	50	48	45	43	41	38
4	79	70	63	58	73	65	59	55	57	52	49	49	46	43	41	39	37	34
5	73	63	56	51	68	59	53	48	52	47	43	45	41	39	38	36	34	31
6	68	58	50	45	63	54	48	43	47	43	39	41	38	35	36	33	31	28
7	64	53	46	41	59	50	43	39	44	39	35	38	34	32	33	30	28	26
8	60	48	41	37	55	46	39	35	40	35	32	35	32	29	31	28	26	24
9	56	45	38	33	52	42	36	32	37	33	29	33	29	27	29	26	24	22
10	52	41	35	30	49	39	33	29	35	30	27	31	27	25	27	24	22	20

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	23571	23571	23571
5°	23191	23134	23306
10°	21699	21989	22603
15°	19727	20353	21486
20°	17511	18421	20035
25°	15250	16458	18408
30°	13062	14497	16867
35°	10831	12306	15007
40°	8322	9840	12787
45°	6015	7450	10289
50°	4098	5553	8160
55°	2664	4016	6342
60°	1528	2828	4584
65°	405	1728	2320
70°	200	534	667
75°	88	45	0
80°	67	0	0
85°	0	0	0



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	349.7	3.9
10°-20°	894.4	9.9
20°-30°	1119.6	12.4
30°-40°	1034.2	11.4
40°-50°	694.9	7.7
50°-60°	358.9	4.0
60°-70°	112.4	1.2
70°-80°	7.1	0.1
80°-90°	1.9	0.0
90°-100°	325.1	3.6
100°-110°	894.5	9.9
110°-120°	923.3	10.2
120°-130°	739.7	8.2
130°-140°	581.0	6.4
140°-150°	445.2	4.9
150°-160°	320.1	3.5
160°-170°	195.7	2.2
170°-180°	66.0	0.7
0°-30°	2363.7	26.1
0°-40°	3397.9	37.5
0°-60°	4451.8	49.1
0°-90°	4573.2	50.5
90°-120°	2142.9	23.6
90°-150°	3908.8	43.1
90°-180°	4491.0	49.5
0°-180°	9063.9	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	3832	3832	3832	3832	3832	
5°	3756	3718	3747	3760	3775	348
15°	3098	3087	3196	3304	3374	863
25°	2247	2265	2425	2591	2712	1030
35°	1442	1479	1639	1832	1999	894
45°	692	733	856	1023	1183	543
55°	248	290	374	481	591	232
65°	28	53	119	143	159	47
75°	4	4	2	0	0	5
85°	0	0	0	0	0	0
90°	2	6	10	13	13	3
95°	48	178	575	246	157	51
105°	160	246	986	1501	1401	169
115°	283	345	790	1574	1786	279
125°	390	445	717	1213	1421	348
135°	471	522	697	981	1110	363
145°	544	581	686	836	900	341
155°	616	636	682	751	773	283
165°	666	674	685	713	717	188
175°	689	691	686	695	694	65
180°	689	689	689	689	689	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	3832.2	3832.2	3832.2	3832.2	3832.2
2.5°	3841.1	3804.8	3814.4	3814.1	3804.0
5°	3756.1	3718.1	3746.9	3760.2	3774.7
7.5°	3597.4	3567.7	3623.0	3664.5	3694.6
10°	3474.3	3449.0	3520.7	3577.3	3618.9
12.5°	3332.0	3312.4	3399.1	3476.7	3530.0
15°	3098.0	3087.1	3196.2	3303.5	3374.2
17.5°	2847.3	2847.0	2971.5	3104.7	3189.9
20°	2675.3	2680.7	2814.3	2961.2	3060.9
22.5°	2503.2	2515.9	2658.6	2811.7	2925.9
25°	2247.0	2265.1	2425.0	2590.9	2712.4
27.5°	2000.8	2027.3	2195.5	2367.9	2515.8
30°	1839.1	1870.0	2041.2	2222.7	2374.9
32.5°	1680.4	1717.1	1884.0	2075.9	2231.1
35°	1442.4	1478.6	1638.9	1831.8	1998.6
37.5°	1196.6	1232.1	1388.6	1578.5	1758.7
40°	1036.4	1076.2	1225.5	1409.5	1592.6
42.5°	891.0	930.9	1071.2	1252.0	1425.0
45°	691.5	733.2	856.5	1023.3	1182.8
47.5°	526.2	571.5	679.7	830.5	975.9
50°	428.3	473.6	580.3	713.2	852.8
52.5°	349.7	393.5	489.8	615.1	743.1
55°	248.4	290.1	374.5	480.8	591.4
57.5°	171.7	207.6	283.3	372.0	458.7
60°	124.2	158.7	229.9	301.9	372.6
62.5°	82.7	114.2	183.9	239.1	286.6
65°	27.8	53.2	118.7	143.1	159.4
67.5°	14.1	17.0	62.3	65.8	71.2
70°	11.1	11.1	29.7	31.6	37.1
72.5°	8.2	8.2	11.9	15.2	16.3
75°	3.7	3.7	1.9	0.0	0.0
77.5°	1.9	1.9	1.5	0.0	0.0
80°	1.9	1.9	0.0	0.0	0.0
82.5°	0.4	0.4	0.0	0.0	0.0
85°	0.0	0.0	0.0	0.0	0.0
87.5°	0.3	1.2	2.1	2.6	2.6
90°	1.5	5.8	10.3	13.2	13.2
92.5°	20.2	86.5	149.9	57.6	47.2
95°	48.4	177.5	574.9	245.8	156.9
97.5°	78.9	196.8	877.3	676.0	477.0
100°	101.2	208.8	972.4	981.5	800.8
102.5°	122.3	223.0	997.0	1217.7	1051.9
105°	159.9	245.9	985.6	1501.0	1400.6
107.5°	195.7	274.2	929.6	1639.8	1669.6
110°	221.5	293.2	887.3	1674.3	1777.6



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	244.9	314.3	845.1	1652.1	1809.3
115°	283.1	344.7	790.5	1574.1	1786.4
117.5°	319.4	376.2	755.9	1464.8	1704.8
120°	341.7	396.2	740.7	1382.8	1630.9
122.5°	361.7	416.2	730.1	1311.0	1546.4
125°	390.1	444.6	717.2	1213.2	1421.2
127.5°	417.1	469.0	708.7	1131.7	1314.1
130°	431.2	484.3	704.0	1083.2	1249.6
132.5°	447.6	500.7	700.5	1040.6	1190.9
135°	470.8	522.4	696.7	981.2	1110.3
137.5°	492.5	540.4	693.4	933.2	1039.6
140°	508.9	553.4	692.3	901.2	997.3
142.5°	523.0	564.0	689.9	872.8	955.1
145°	544.1	581.4	686.4	836.0	900.5
147.5°	566.7	598.8	684.6	803.4	855.1
150°	580.8	609.5	683.5	785.6	825.7
152.5°	593.7	620.1	682.3	770.2	803.4
155°	616.0	636.1	682.0	751.4	772.9
157.5°	632.1	648.5	682.0	736.0	750.9
160°	643.9	656.8	682.0	727.7	739.2
162.5°	653.2	663.9	683.2	720.6	729.8
165°	665.9	674.5	684.9	712.9	717.2
167.5°	674.7	681.3	686.4	706.4	707.5
170°	680.5	684.8	686.4	704.0	704.0
172.5°	685.2	687.2	686.4	700.4	699.3
175°	689.3	690.8	686.4	695.2	693.7
177.5°	690.5	690.5	685.8	692.8	690.5
180°	689.3	689.3	689.3	689.3	689.3

(END OF REPORT)