

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: P518377

Luminaire Tested: **SQ4-BB-025U-125D-835-1D-UNV-STD-W-6**

Issue Date: 4/29/2021

Test Information

Test Method: LM-79-2019
Report Number: P518377
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1910-536-32, 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-025U-125D-835-1D-UNV-STD-W-6
Description: CORELITE SQ4 SUSPENDED LED LUMINAIRE WITH BLACK BAFFLE
DOWNLIGHT 1250 LUMENS PER FOOT
UPLIGHT 250 LUMENS PER FOOT
Light Source: 3500K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

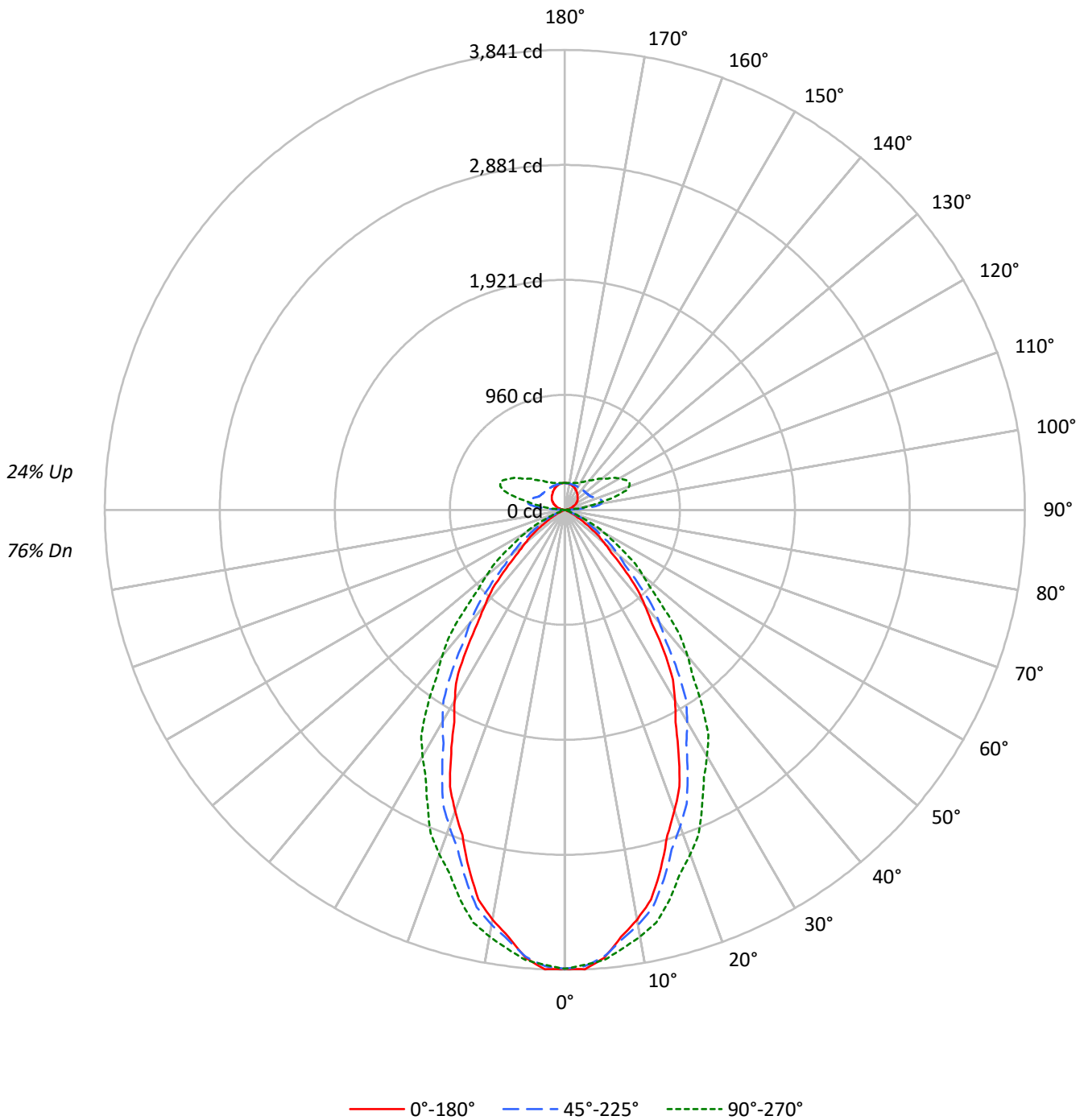
Lumens per Lamp: N/A
Luminaire Lumens: 6021.5 lumens
Efficiency: N/A
Efficacy: 77.3 lumens/watt
Spacing Criteria (0/90/45): 0.85 / 0.97 / 0.97
Luminous Opening: Rectangular (W 0.29' x L: 6' x H: 0')
CIE Type: Semi-Direct

Input Watts (W): 77.9
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	50	30	10	0	
RCR																						
0	113	113	113	113	108	108	108	108	98	98	98	88	88	88	80	80	80	76				
1	106	103	100	97	101	98	96	93	90	88	86	82	81	79	75	74	73	69				
2	99	93	88	84	95	89	85	81	82	79	76	75	73	71	69	67	66	63				
3	92	84	78	74	88	81	76	71	75	71	67	69	66	63	64	62	59	57				
4	86	77	70	65	82	74	68	63	69	64	60	64	60	57	59	56	54	51				
5	80	70	63	58	77	68	62	57	63	58	54	59	55	51	55	52	49	46				
6	75	65	57	52	72	62	56	51	58	53	49	55	50	47	51	47	45	42				
7	70	59	52	47	67	58	51	46	54	49	45	51	46	43	48	44	41	39				
8	66	55	48	43	63	53	47	42	50	45	41	47	43	39	44	41	38	36				
9	62	51	44	40	60	50	43	39	47	41	38	44	40	36	42	38	35	33				
10	59	48	41	37	56	46	40	36	44	38	35	41	37	34	39	35	32	31				

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	5.8
10°-20°	894.4	14.9
20°-30°	1119.6	18.6
30°-40°	1034.2	17.2
40°-50°	694.9	11.5
50°-60°	358.9	6.0
60°-70°	112.4	1.9
70°-80°	7.1	0.1
80°-90°	1.3	0.0
90°-100°	108.9	1.8
100°-110°	286.4	4.8
110°-120°	297.0	4.9
120°-130°	238.2	4.0
130°-140°	186.9	3.1
140°-150°	143.5	2.4
150°-160°	103.3	1.7
160°-170°	63.2	1.0
170°-180°	21.4	0.4
0°-30°	2363.7	39.3
0°-40°	3397.9	56.4
0°-60°	4451.8	73.9
0°-90°	4572.6	75.9
90°-120°	692.3	11.5
90°-150°	1261.0	20.9
90°-180°	1449.0	24.1
0°-180°	6021.5	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°	1	4	12	6	6	1
95°	14	56	188	97	66	16
105°	52	78	317	481	448	55
115°	92	111	254	506	578	91
125°	128	143	231	390	460	113
135°	152	167	224	315	357	118
145°	176	188	221	268	290	110
155°	199	205	221	242	249	92
165°	215	218	221	229	232	61
175°	224	224	222	225	225	21
180°	224	224	224	224	224	

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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	0.8	2.3	1.1	1.1
90°	1.4	4.2	11.5	5.7	5.7
92.5°	6.0	29.0	64.2	28.4	18.3
95°	14.3	56.4	187.7	96.7	65.9
97.5°	24.9	61.9	280.9	223.3	164.5
100°	33.0	66.6	309.5	313.7	243.6
102.5°	39.8	71.2	317.5	390.7	330.7
105°	51.6	78.2	316.7	480.7	448.5
107.5°	63.6	88.3	298.6	527.5	535.3
110°	71.6	94.1	283.7	539.5	573.2



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	79.7	101.0	270.0	531.9	583.5
115°	91.7	111.3	253.6	506.0	577.5
117.5°	103.5	121.4	242.5	470.1	549.4
120°	110.3	127.1	237.9	446.0	523.0
122.5°	117.2	134.0	234.4	421.9	497.8
125°	127.5	142.9	230.7	389.9	460.0
127.5°	135.8	151.5	227.5	364.2	423.3
130°	140.4	157.2	226.4	348.0	402.7
132.5°	145.0	161.8	225.3	334.1	383.2
135°	151.9	167.3	223.5	314.8	356.8
137.5°	159.1	174.2	223.3	300.3	334.7
140°	164.8	178.8	222.1	288.8	321.0
142.5°	169.4	182.3	222.1	280.6	308.4
145°	176.3	187.5	220.7	268.4	289.5
147.5°	183.1	194.1	220.7	258.3	275.7
150°	187.7	197.5	220.7	252.5	266.5
152.5°	192.3	199.9	220.7	247.9	258.5
155°	199.2	204.8	220.7	242.3	249.3
157.5°	204.3	209.7	220.7	237.4	242.5
160°	207.8	212.0	220.7	235.1	237.9
162.5°	211.2	214.3	220.7	232.8	235.6
165°	214.9	217.7	220.7	229.3	232.1
167.5°	218.4	219.8	222.1	227.9	229.0
170°	220.7	222.1	222.1	227.8	227.8
172.5°	221.8	222.1	222.1	226.7	225.5
175°	223.5	223.5	222.1	225.0	225.0
177.5°	223.5	223.5	222.4	224.7	223.5
180°	223.5	223.5	223.5	223.5	223.5

(END OF REPORT)