

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: P518360

Luminaire Tested: **SQ4-BB-025U-100D-930-1D-UNV-STD-W-4**

Issue Date: 4/29/2021

Test Information

Test Method: LM-79-2019
Report Number: P518360
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-100D-930-1D-UNV-STD-W-4
Description: CORELITE SQ4 SUSPENDED LED LUMINAIRE WITH BLACK BAFFLE
DOWNLIGHT 1000 LUMENS PER FOOT
UPLIGHT 250 LUMENS PER FOOT
Light Source: 3000K CCT, 90 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

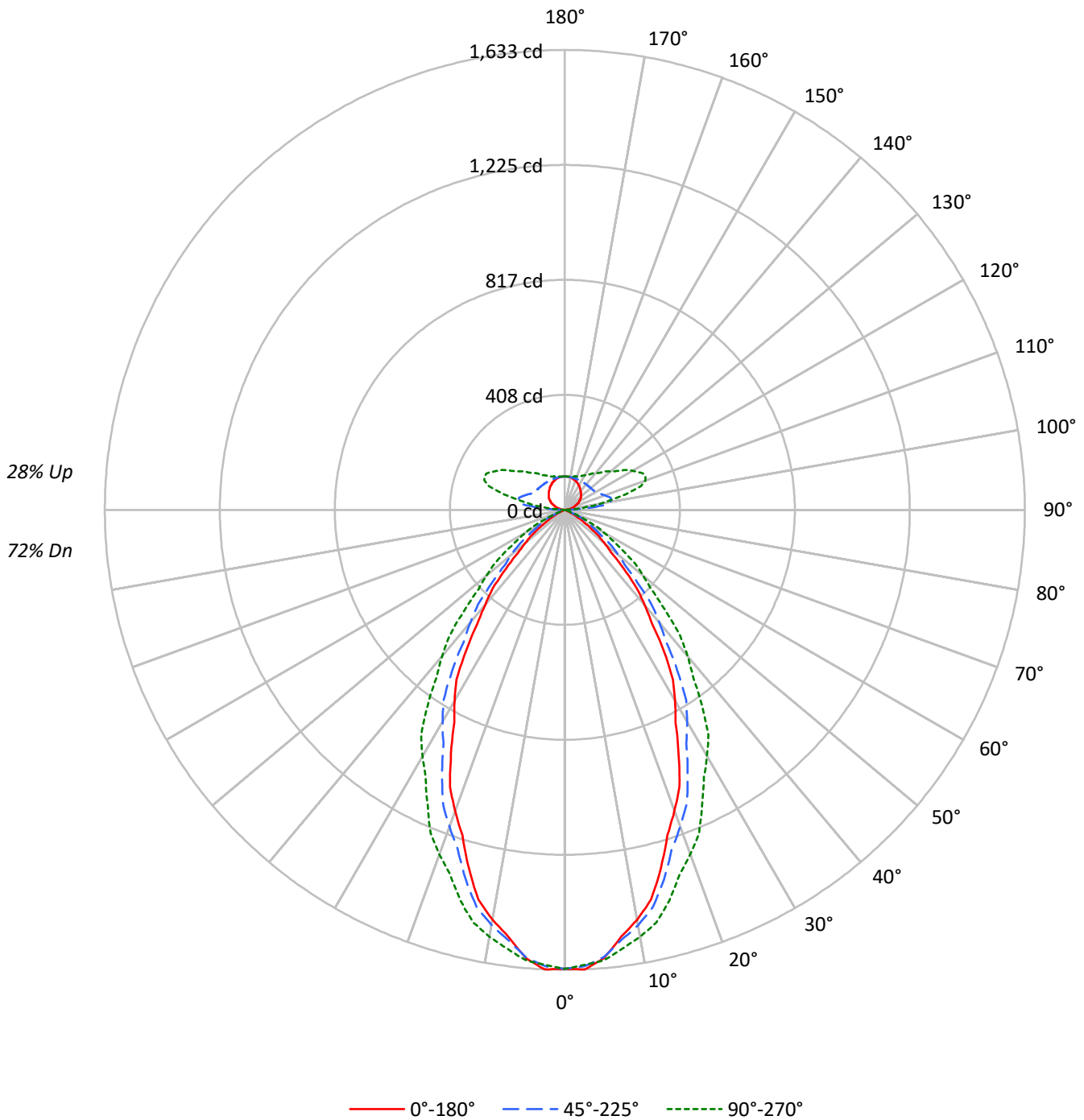
Lumens per Lamp: N/A
Luminaire Lumens: 2713.2 lumens
Efficiency: N/A
Efficacy: 70.1 lumens/watt
Spacing Criteria (0/90/45): 0.85 / 0.97 / 0.97
Luminous Opening: Rectangular (W 0.29' x L: 4' x H: 0')
CIE Type: Semi-Direct

Input Watts (W): 38.7
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	112	112	112	112	106	106	106	106	95	95	95	85	85	85	76	76	76	72
1	105	102	99	96	100	97	94	92	87	86	84	79	78	76	71	70	69	65
2	98	92	87	83	93	88	83	80	80	77	74	73	70	68	66	64	62	59
3	91	83	77	72	87	80	74	70	73	69	65	67	63	61	61	58	56	53
4	85	76	69	64	81	73	67	62	67	62	58	61	58	55	56	53	51	48
5	79	69	62	57	75	66	60	55	61	56	52	57	52	49	52	49	46	44
6	74	63	56	51	70	61	55	50	57	51	47	52	48	45	48	45	42	40
7	69	58	51	46	66	56	50	45	52	47	43	49	44	41	45	42	39	37
8	65	54	47	42	62	52	46	41	49	43	39	45	41	38	42	38	36	34
9	61	50	43	39	58	48	42	38	45	40	36	42	38	35	40	36	33	31
10	58	47	40	36	55	45	39	35	42	37	33	40	35	32	37	33	31	29

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	15035	15035	15035
5°	14792	14756	14866
10°	13841	14026	14417
15°	12583	12982	13705
20°	11169	11750	12780
25°	9727	10498	11742
30°	8332	9247	10759
35°	6909	7849	9573
40°	5308	6276	8156
45°	3837	4752	6563
50°	2614	3542	5205
55°	1699	2562	4045
60°	974	1805	2925
65°	258	1102	1480
70°	127	340	426
75°	57	29	0
80°	43	0	0
85°	0	0	0



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	148.7	5.5
10°-20°	380.3	14.0
20°-30°	476.1	17.5
30°-40°	439.8	16.2
40°-50°	295.5	10.9
50°-60°	152.6	5.6
60°-70°	47.8	1.8
70°-80°	3.0	0.1
80°-90°	0.7	0.0
90°-100°	57.8	2.1
100°-110°	151.9	5.6
110°-120°	157.6	5.8
120°-130°	126.4	4.7
130°-140°	99.2	3.7
140°-150°	76.1	2.8
150°-160°	54.8	2.0
160°-170°	33.5	1.2
170°-180°	11.3	0.4
0°-30°	1005.1	37.0
0°-40°	1444.9	53.3
0°-60°	1893.0	69.8
0°-90°	1944.6	71.7
90°-120°	367.3	13.5
90°-150°	669.0	24.7
90°-180°	769.0	28.3
0°-180°	2713.2	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1630	1630	1630	1630	1630	
5°	1597	1581	1593	1599	1605	148
15°	1317	1313	1359	1405	1435	367
25°	956	963	1031	1102	1153	438
35°	613	629	697	779	850	380
45°	294	312	364	435	503	231
55°	106	123	159	204	252	99
65°	12	23	50	61	68	20
75°	2	2	1	0	0	2
85°	0	0	0	0	0	0
90°	1	2	6	3	3	1
95°	8	30	100	51	35	8
105°	27	42	168	255	238	29
115°	49	59	135	268	306	48
125°	68	76	122	207	244	60
135°	81	89	119	167	189	62
145°	94	99	117	142	154	59
155°	106	109	117	129	132	49
165°	114	116	117	122	123	32
175°	119	119	118	119	119	11
180°	119	119	119	119	119	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1629.6	1629.6	1629.6	1629.6	1629.6
2.5°	1633.3	1617.9	1622.0	1621.9	1617.6
5°	1597.2	1581.0	1593.3	1599.0	1605.1
7.5°	1529.8	1517.1	1540.6	1558.3	1571.1
10°	1477.4	1466.6	1497.1	1521.2	1538.9
12.5°	1416.9	1408.5	1445.4	1478.4	1501.1
15°	1317.4	1312.7	1359.1	1404.8	1434.8
17.5°	1210.8	1210.6	1263.6	1320.2	1356.5
20°	1137.6	1139.9	1196.7	1259.2	1301.6
22.5°	1064.5	1069.9	1130.5	1195.6	1244.2
25°	955.5	963.2	1031.2	1101.7	1153.4
27.5°	850.8	862.1	933.6	1006.9	1069.8
30°	782.1	795.2	868.0	945.1	1009.9
32.5°	714.6	730.1	801.1	882.7	948.7
35°	613.4	628.8	696.9	778.9	849.9
37.5°	508.8	523.9	590.5	671.2	747.8
40°	440.7	457.7	521.1	599.4	677.2
42.5°	378.9	395.8	455.5	532.4	605.9
45°	294.1	311.8	364.2	435.1	503.0
47.5°	223.7	243.0	289.0	353.2	415.0
50°	182.1	201.4	246.8	303.3	362.6
52.5°	148.7	167.3	208.3	261.6	316.0
55°	105.6	123.4	159.3	204.5	251.5
57.5°	73.0	88.3	120.5	158.2	195.0
60°	52.8	67.5	97.8	128.4	158.5
62.5°	35.2	48.6	78.2	101.7	121.9
65°	11.8	22.6	50.5	60.9	67.8
67.5°	6.0	7.2	26.5	28.0	30.3
70°	4.7	4.7	12.6	13.5	15.8
72.5°	3.5	3.5	5.0	6.5	6.9
75°	1.6	1.6	0.8	0.0	0.0
77.5°	0.8	0.8	0.6	0.0	0.0
80°	0.8	0.8	0.0	0.0	0.0
82.5°	0.2	0.2	0.0	0.0	0.0
85°	0.0	0.0	0.0	0.0	0.0
87.5°	0.2	0.4	1.2	0.6	0.6
90°	0.8	2.2	6.1	3.0	3.0
92.5°	3.2	15.4	34.1	15.1	9.7
95°	7.6	29.9	99.6	51.3	35.0
97.5°	13.2	32.8	149.0	118.5	87.3
100°	17.5	35.3	164.2	166.4	129.2
102.5°	21.1	37.8	168.5	207.3	175.4
105°	27.4	41.5	168.0	255.0	237.9
107.5°	33.8	46.8	158.4	279.8	284.0
110°	38.0	49.9	150.5	286.2	304.1

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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	42.3	53.6	143.2	282.2	309.5
115°	48.7	59.1	134.6	268.4	306.4
117.5°	54.9	64.4	128.6	249.4	291.5
120°	58.5	67.5	126.2	236.6	277.5
122.5°	62.2	71.1	124.4	223.8	264.1
125°	67.7	75.8	122.4	206.9	244.0
127.5°	72.1	80.4	120.7	193.2	224.6
130°	74.5	83.4	120.1	184.6	213.6
132.5°	76.9	85.8	119.5	177.3	203.3
135°	80.6	88.8	118.6	167.0	189.3
137.5°	84.4	92.4	118.4	159.3	177.6
140°	87.4	94.9	117.8	153.2	170.3
142.5°	89.9	96.7	117.8	148.9	163.6
145°	93.5	99.4	117.1	142.4	153.6
147.5°	97.2	102.9	117.1	137.0	146.3
150°	99.6	104.8	117.1	134.0	141.4
152.5°	102.0	106.0	117.1	131.5	137.1
155°	105.7	108.6	117.1	128.6	132.3
157.5°	108.4	111.2	117.1	125.9	128.6
160°	110.2	112.5	117.1	124.7	126.2
162.5°	112.0	113.7	117.1	123.5	125.0
165°	114.0	115.5	117.1	121.7	123.1
167.5°	115.9	116.6	117.8	120.9	121.5
170°	117.1	117.8	117.8	120.9	120.9
172.5°	117.7	117.8	117.8	120.2	119.7
175°	118.6	118.6	117.8	119.3	119.3
177.5°	118.6	118.6	118.0	119.2	118.6
180°	118.6	118.6	118.6	118.6	118.6

(END OF REPORT)