

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

Brand: CORELITE

Report Number: P845466

Luminaire Tested: SQ2R-BBN-125D-930-UNV-STD-W-4

Issue Date: 6/14/2024

Test Information

Test Method: LM-79-2019
Report Number: P845466
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2308-130-1)
Test Lab: INNOVATION CENTER
Issue Date: 6/14/2024
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: CORELITE
Catalog Number: SQ2R-BBN-125D-930-UNV-STD-W-4
Description: CONTINUA SQ2 RECESSED, DISCREET OPTICS - BLACK BAFFLE, NARROW 35-DEGREE OPTIC
1250 LUMENS PER FOOT
Light Source: 3000K CCT, 90 CRI LEDS
Ballast/Driver: -

Summary

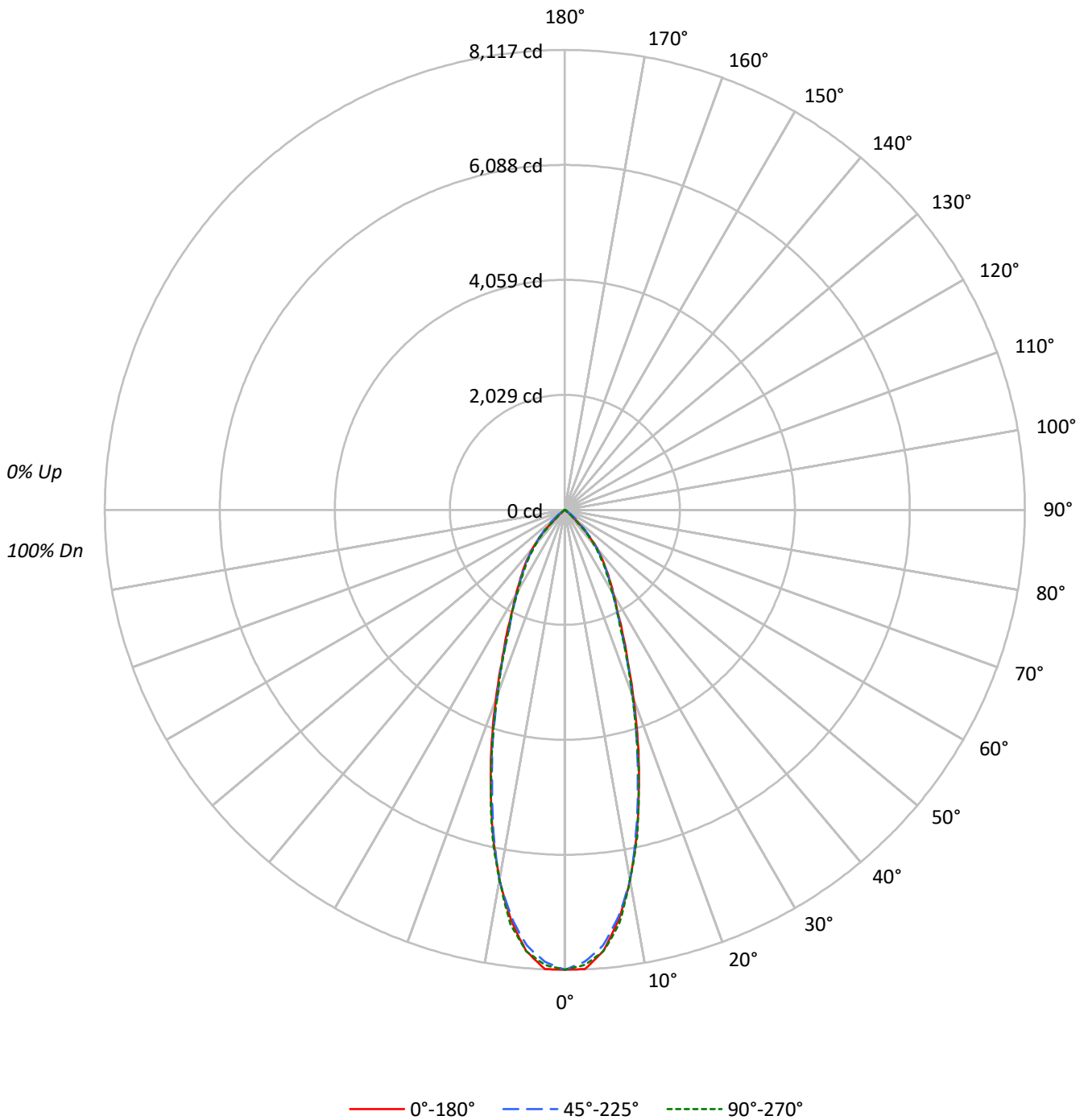
Lumens per Lamp: N/A
Luminaire Lumens: 4385.3 lumens
Efficiency: N/A
Efficacy: 80.3 lumens/watt
Spacing Criteria (0/90/45): 0.59 / 0.59 / 0.62
Luminous Opening: Rectangular (W 0.17' x L: 4' x H: 0')
CIE Type: Direct

Input Watts (W): 54.6
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	
RCR																					
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100	100	100	
1	114	111	109	107	111	109	107	105	105	103	102	101	100	99	98	97	96	94	94	94	
2	109	104	100	97	106	102	99	96	99	96	94	96	94	92	93	91	90	88	88	88	
3	103	97	93	89	101	96	92	88	93	90	87	91	88	85	89	86	84	83	83	83	
4	99	91	86	82	97	90	85	82	88	84	81	86	83	80	84	81	79	77	77	77	
5	94	86	80	76	92	85	80	76	83	79	75	82	78	75	80	77	74	73	73	73	
6	90	81	75	71	88	80	75	71	79	74	71	78	73	70	76	73	70	68	68	68	
7	86	77	71	67	84	76	71	67	75	70	67	74	69	66	73	69	66	65	65	65	
8	82	73	67	63	81	72	67	63	71	66	63	70	66	63	69	65	62	61	61	61	
9	78	69	64	60	77	69	63	60	68	63	59	67	62	59	66	62	59	58	58	58	
10	75	66	60	57	74	65	60	57	65	60	56	64	59	56	63	59	56	55	55	55	

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	131049	131049	131049
5°	126667	125103	126738
10°	108706	108779	108706
15°	84376	83032	84180
20°	60897	59639	59589
25°	43178	41459	41537
30°	32125	31306	31006
35°	24997	24362	23844
40°	18497	18036	16895
45°	9451	11590	7615
50°	2057	6393	1507
55°	577	2595	453
60°	94	520	48
65°	0	57	0
70°	0	0	0
75°	0	0	0
80°	0	0	0
85°	0	0	0

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 45°
 Vertical Angle: 45°
 Luminance: 11590 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	706.5	16.1
10°-20°	1386.9	31.6
20°-30°	1110.6	25.3
30°-40°	774.9	17.7
40°-50°	356.7	8.1
50°-60°	48.2	1.1
60°-70°	1.5	0.0
70°-80°	0.0	0.0
80°-90°	0.0	0.0
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°	3204.0	73.1
0°-40°	3978.8	90.7
0°-60°	4383.8	100.0
0°-90°	4385.3	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4385.3	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	8117	8117	8117	8117	8117	
5°	7815	7773	7719	7814	7820	707
15°	5048	5114	4967	5038	5036	1393
25°	2424	2368	2327	2362	2332	1128
35°	1268	1268	1236	1214	1210	793
45°	414	496	508	464	334	331
55°	20	32	92	26	16	24
65°	0	0	2	0	0	0
75°	0	0	0	0	0	0
85°	0	0	0	0	0	0
90°	0	0	0	0	0	0



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	8116.6	8116.6	8116.6	8116.6	8116.6
2.5°	8110.8	8072.7	7985.0	8065.4	8040.6
5°	7815.3	7772.9	7718.8	7813.8	7819.7
7.5°	7293.1	7307.7	7244.9	7367.7	7363.3
10°	6630.5	6640.7	6634.9	6670.0	6630.5
12.5°	5862.6	5910.9	5817.2	5874.3	5905.0
15°	5047.8	5113.7	4967.4	5037.6	5036.1
17.5°	4288.7	4282.8	4205.3	4224.3	4217.0
20°	3544.2	3533.9	3471.0	3460.8	3468.1
22.5°	2906.4	2887.4	2875.7	2846.5	2856.7
25°	2423.7	2368.1	2327.2	2362.3	2331.6
27.5°	2001.0	2002.5	1967.4	1971.7	1983.4
30°	1723.1	1712.8	1679.2	1680.7	1663.1
32.5°	1475.9	1487.6	1443.7	1433.5	1415.9
35°	1268.2	1268.2	1236.0	1214.1	1209.7
37.5°	1067.8	1066.3	1041.5	1012.2	1002.0
40°	877.6	870.3	855.7	817.7	801.6
42.5°	661.1	687.5	672.9	634.8	608.5
45°	413.9	495.9	507.6	463.7	333.5
47.5°	201.9	296.9	359.8	251.6	128.7
50°	81.9	152.1	254.5	109.7	60.0
52.5°	39.5	65.8	172.6	52.7	32.2
55°	20.5	32.2	92.2	26.3	16.1
57.5°	8.8	16.1	39.5	13.2	7.3
60°	2.9	5.9	16.1	4.4	1.5
62.5°	0.0	1.5	5.9	1.5	0.0
65°	0.0	0.0	1.5	0.0	0.0
67.5°	0.0	0.0	0.0	0.0	0.0
70°	0.0	0.0	0.0	0.0	0.0
72.5°	0.0	0.0	0.0	0.0	0.0
75°	0.0	0.0	0.0	0.0	0.0
77.5°	0.0	0.0	0.0	0.0	0.0
80°	0.0	0.0	0.0	0.0	0.0
82.5°	0.0	0.0	0.0	0.0	0.0
85°	0.0	0.0	0.0	0.0	0.0
87.5°	0.0	0.0	0.0	0.0	0.0
90°	0.0	0.0	0.0	0.0	0.0



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CIE UGR TABLE:

Reflectances:											
Ceiling		0.7	0.7	0.5	0.5	0.3	0.7	0.7	0.5	0.5	0.3
Wall		0.5	0.3	0.5	0.3	0.3	0.5	0.3	0.5	0.3	0.3
Reference plane		0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2
Room dimensions		Viewed crosswise					Viewed endwise				
X=2H	Y=2H	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	3H	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	4H	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	6H	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	8H	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	12H	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
4H	2H	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	3H	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	4H	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	6H	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	8H	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	12H	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
8H	4H	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	6H	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	8H	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	12H	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
12H	4H	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	6H	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	8H	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00