

Cooper Lighting Solutions Photometric Lab
1121 Highway 74 South
Peachtree City, GA 30269



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: P1036173

Luminaire Tested: SQ4R-BB-075D-B2750-1D-UNV-W2A_3000K

Issue Date: 8/14/2023

Test Information

Test Method: LM-79-2019
Report Number: P1036173
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P518604)
Test Lab: INNOVATION CENTER
Issue Date: 8/14/2023
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: CORELITE
Catalog Number: SQ4R-BB-075D-B2750-1D-UNV-W2A_3000K
Description: CORELITE SQ4 SUSPENDED LED LUMINAIRE WITH, DIRECT ONLY 750 LUMENS PER FOOT DOV

Light Source: -
Ballast/Driver: -

Summary

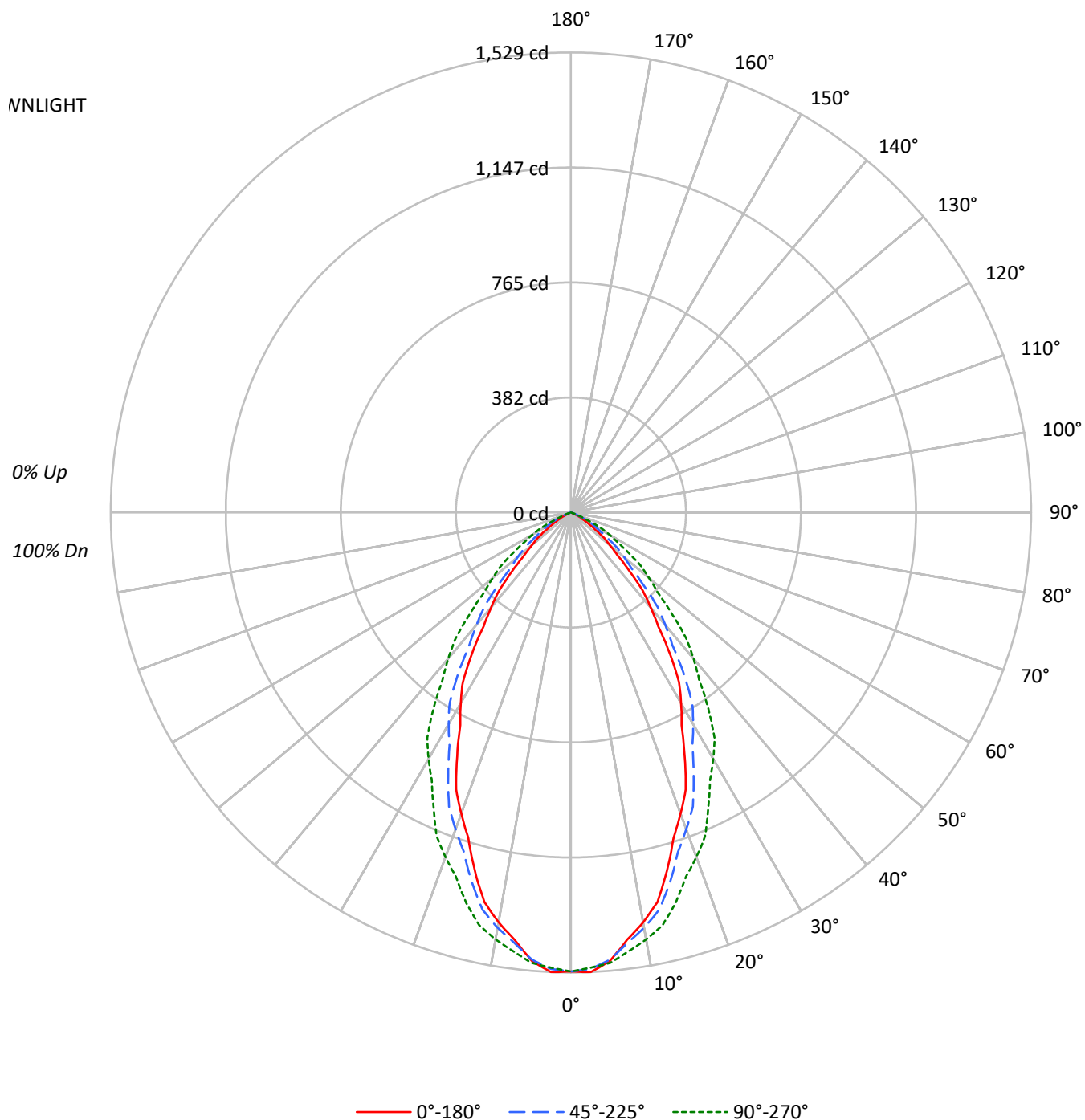
Lumens per Lamp: N/A
Luminaire Lumens: 1819.8 lumens
Efficiency: N/A
Efficacy: 71.1 lumens/watt
Spacing Criteria (0/90/45): 0.85 / 0.97 / 0.97
Luminous Opening: Rectangular (W 0.29' x L: 4' x H: 0')
CIE Type: Direct

Input Watts (W): 25.6
Input Voltage (V): NR
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
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	102	102	100
1	112	109	106	104	110	107	104	102	103	101	99	99	98	96	96	94	93	93	93	91
2	106	100	95	91	103	98	94	90	95	91	88	92	89	86	89	86	84	84	84	82
3	99	91	85	81	97	90	84	80	87	82	79	85	81	77	82	79	76	76	76	74
4	93	84	77	72	91	83	76	72	80	75	71	78	74	70	76	72	69	69	69	67
5	87	77	70	65	85	76	70	65	74	68	64	72	67	64	71	66	63	63	63	61
6	82	71	64	59	80	70	64	59	69	63	58	67	62	58	66	61	58	58	58	56
7	77	66	59	54	75	65	59	54	64	58	53	62	57	53	61	56	53	53	53	51
8	72	61	54	50	71	61	54	49	59	53	49	58	53	49	57	52	49	49	49	47
9	68	57	50	46	67	57	50	46	56	50	46	55	49	45	54	49	45	45	45	44
10	65	54	47	42	63	53	47	42	52	46	42	51	46	42	51	46	42	42	42	41

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	14075	14075	14075
5°	13849	13814	13917
10°	12957	13130	13497
15°	11780	12154	12831
20°	10457	11000	11964
25°	9105	9827	10992
30°	7800	8657	10073
35°	6466	7349	8960
40°	4968	5876	7635
45°	3593	4449	6144
50°	2447	3314	4873
55°	1591	2397	3787
60°	912	1688	2738
65°	240	1033	1386
70°	121	318	397
75°	53	25	0
80°	37	0	0
85°	0	0	0

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 90°

Vertical Angle: 45°

Luminance: 6144 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	139.2	7.7
10°-20°	356.0	19.6
20°-30°	445.7	24.5
30°-40°	411.7	22.6
40°-50°	276.6	15.2
50°-60°	142.9	7.9
60°-70°	44.8	2.5
70°-80°	2.8	0.2
80°-90°	0.1	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°	941.0	51.7
0°-40°	1352.7	74.3
0°-60°	1772.2	97.4
0°-90°	1819.8	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1819.8	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1526	1526	1526	1526	1526	
5°	1495	1480	1492	1497	1503	139
15°	1233	1229	1272	1315	1343	343
25°	894	902	965	1031	1080	410
35°	574	589	652	729	796	356
45°	275	292	341	407	471	216
55°	99	116	149	192	235	92
65°	11	21	47	57	64	19
75°	2	2	1	0	0	2
85°	0	0	0	0	0	0
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1525.6	1525.6	1525.6	1525.6	1525.6
2.5°	1529.0	1514.7	1518.4	1518.4	1514.3
5°	1495.3	1480.1	1491.6	1496.9	1502.7
7.5°	1432.1	1420.3	1442.4	1458.7	1470.7
10°	1383.0	1373.0	1401.5	1424.0	1440.7
12.5°	1326.4	1318.6	1353.1	1384.1	1405.2
15°	1233.3	1229.0	1272.4	1315.0	1343.3
17.5°	1133.6	1133.4	1182.8	1235.9	1269.9
20°	1065.1	1067.3	1120.4	1178.9	1218.5
22.5°	996.6	1001.5	1058.3	1119.4	1164.8
25°	894.4	901.7	965.3	1031.4	1079.8
27.5°	796.5	807.1	874.1	942.6	1001.5
30°	732.2	744.4	812.6	884.8	945.5
32.5°	668.9	683.5	749.9	826.4	888.1
35°	574.1	588.6	652.5	729.2	795.5
37.5°	476.4	490.4	552.7	628.4	700.1
40°	412.5	428.4	487.9	561.1	633.9
42.5°	354.7	370.6	426.4	498.4	567.3
45°	275.4	291.9	341.0	407.3	470.9
47.5°	209.6	227.5	270.5	330.7	388.5
50°	170.5	188.4	230.9	283.8	339.5
52.5°	139.2	156.8	195.0	244.8	295.8
55°	98.9	115.5	149.0	191.5	235.4
57.5°	68.3	82.7	112.8	148.0	182.7
60°	49.4	63.1	91.5	120.1	148.4
62.5°	33.0	45.5	73.2	95.2	114.2
65°	11.0	21.2	47.3	57.0	63.5
67.5°	5.7	6.7	24.7	26.2	28.4
70°	4.5	4.5	11.8	12.5	14.7
72.5°	3.2	3.2	4.7	6.1	6.6
75°	1.5	1.5	0.7	0.0	0.0
77.5°	0.7	0.7	0.7	0.0	0.0
80°	0.7	0.7	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°	0.0	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	9.12	10.35	9.48	10.66	10.97	13.70	14.93	14.07	15.24	15.56
	3H	8.99	10.07	9.37	10.41	10.77	13.68	14.76	14.06	15.09	15.45
	4H	8.92	9.92	9.32	10.27	10.66	13.59	14.60	14.00	14.95	15.33
	6H	8.83	9.75	9.25	10.12	10.51	13.51	14.42	13.92	14.80	15.19
	8H	8.78	9.65	9.21	10.04	10.45	13.46	14.32	13.89	14.72	15.12
	12H	8.73	9.56	9.17	9.94	10.37	13.41	14.24	13.84	14.62	15.05
4H	2H	9.48	10.48	9.88	10.83	11.22	13.63	14.64	14.04	14.99	15.37
	3H	9.37	10.18	9.78	10.58	10.99	13.61	14.42	14.03	14.83	15.23
	4H	9.27	9.99	9.71	10.41	10.86	13.52	14.23	13.95	14.66	15.10
	6H	9.19	9.80	9.65	10.25	10.72	13.43	14.04	13.89	14.49	14.96
	8H	9.12	9.70	9.60	10.15	10.62	13.36	13.94	13.84	14.39	14.86
	12H	9.07	9.57	9.56	10.06	10.54	13.31	13.81	13.80	14.30	14.77
8H	4H	9.13	9.71	9.60	10.15	10.63	13.37	13.94	13.84	14.39	14.86
	6H	9.02	9.49	9.53	9.99	10.47	13.25	13.72	13.76	14.22	14.70
	8H	8.96	9.37	9.48	9.89	10.39	13.19	13.60	13.71	14.12	14.62
	12H	8.90	9.27	9.42	9.77	10.34	13.13	13.50	13.65	14.00	14.57
12H	4H	9.08	9.58	9.57	10.07	10.54	13.31	13.82	13.80	14.30	14.78
	6H	8.95	9.37	9.48	9.89	10.38	13.19	13.60	13.71	14.12	14.62
	8H	8.90	9.27	9.42	9.77	10.34	13.13	13.50	13.65	14.00	14.57

END OF REPORT