

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: P1036372

Luminaire Tested: SQ4R-WB-075D-B40-1D-UNV

Issue Date: 8/14/2023

Test Information

Test Method: LM-79-2019
Report Number: P1036372
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P519276)
Test Lab: INNOVATION CENTER
Issue Date: 8/14/2023
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: CORELITE
Catalog Number: SQ4R-WB-075D-B40-1D-UNV
Description: CORELITE SQ4 SUSPENDED LED LUMINAIRE WITH, DIRECT ONLY 750 LUMENS PER FOOT DOV

Light Source: -
Ballast/Driver: -

Summary

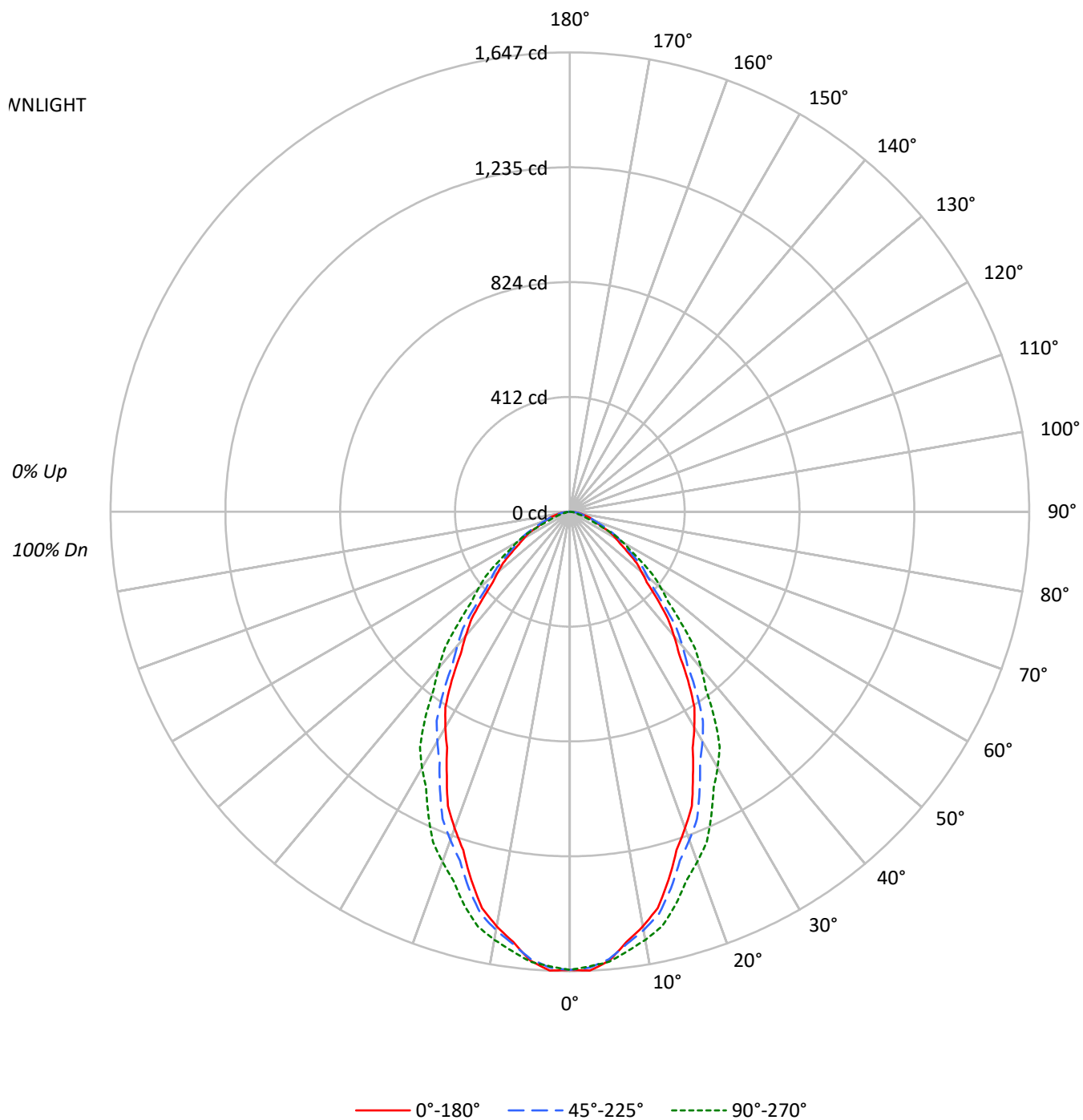
Lumens per Lamp: N/A
Luminaire Lumens: 2393.6 lumens
Efficiency: N/A
Efficacy: 93.5 lumens/watt
Spacing Criteria (0/90/45): 0.89 / 1 / 1.02
Luminous Opening: Rectangular (W 0.29' x L: 4' x H: 0')
CIE Type: Direct

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
RCR																	
0	119	119	119	119	116	116	116	116	111	111	111		106	106	106		102
1	111	107	104	101	109	105	102	99	101	99	96		97	95	93		94
2	103	97	91	87	101	95	90	86	92	87	84		88	85	82		85
3	96	87	81	75	94	86	80	75	83	78	73		80	76	72		78
4	89	79	72	66	87	78	71	66	76	70	65		74	68	64		71
5	83	72	65	59	81	71	64	59	69	63	58		67	62	58		66
6	78	66	59	53	76	65	58	53	64	57	53		62	56	52		61
7	73	61	53	48	71	60	53	48	59	52	48		58	52	47		56
8	68	57	49	44	67	56	49	44	55	48	44		53	48	43		52
9	64	53	45	40	63	52	45	40	51	45	40		50	44	40		49
10	61	49	42	37	60	48	42	37	48	41	37		47	41	37		46

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	15155	15155	15155
5°	14966	14912	15000
10°	14140	14268	14599
15°	13052	13357	13955
20°	11854	12298	13112
25°	10633	11211	12217
30°	9506	10128	11287
35°	8312	8913	10189
40°	6996	7553	8820
45°	5774	6272	7364
50°	4820	5255	6135
55°	4092	4509	5065
60°	3499	3910	4043
65°	2786	3288	2611
70°	2471	2568	1594
75°	2289	2082	977
80°	2104	1913	839
85°	1895	1768	688

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 90°

Vertical Angle: 45°

Luminance: 7364 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	150.7	6.3
10°-20°	391.9	16.4
20°-30°	507.6	21.2
30°-40°	497.1	20.8
40°-50°	380.5	15.9
50°-60°	253.5	10.6
60°-70°	138.4	5.8
70°-80°	57.7	2.4
80°-90°	16.3	0.7
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°	1050.2	43.9
0°-40°	1547.2	64.6
0°-60°	2181.3	91.1
0°-90°	2393.6	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2393.6	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1643	1643	1643	1643	1643	
5°	1616	1600	1610	1614	1620	150
15°	1366	1362	1398	1436	1461	382
25°	1044	1047	1101	1149	1200	480
35°	738	742	791	845	905	459
45°	442	451	481	517	564	345
55°	254	265	280	291	315	231
65°	128	138	151	132	120	133
75°	64	64	58	40	27	68
85°	18	18	17	11	6	20
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1642.6	1642.6	1642.6	1642.6	1642.6
2.5°	1646.6	1632.0	1635.8	1635.6	1631.0
5°	1616.0	1599.6	1610.1	1613.9	1619.6
7.5°	1555.9	1543.7	1562.8	1576.9	1588.3
10°	1509.3	1498.7	1523.0	1543.5	1558.3
12.5°	1455.1	1446.1	1476.4	1503.7	1523.2
15°	1366.5	1361.6	1398.4	1436.3	1461.0
17.5°	1271.9	1269.5	1311.5	1355.9	1387.4
20°	1207.3	1206.6	1252.6	1298.9	1335.5
22.5°	1142.1	1143.6	1192.0	1240.2	1282.0
25°	1044.5	1047.2	1101.3	1149.3	1200.1
27.5°	954.0	955.3	1011.1	1061.9	1116.1
30°	892.3	895.8	950.7	1003.2	1059.5
32.5°	830.7	834.8	888.4	942.6	1000.1
35°	738.0	741.6	791.3	844.7	904.6
37.5°	642.6	647.4	691.6	741.9	801.0
40°	580.9	588.0	627.1	674.6	732.3
42.5°	521.5	530.3	566.5	611.6	663.6
45°	442.5	451.0	480.7	517.1	564.4
47.5°	374.4	384.2	407.1	438.4	478.7
50°	335.8	345.1	366.1	389.3	427.4
52.5°	301.9	311.0	329.8	347.7	380.2
55°	254.4	264.9	280.3	291.1	314.9
57.5°	215.5	225.7	237.9	242.7	257.2
60°	189.6	200.9	211.9	211.3	219.1
62.5°	165.9	175.6	186.5	178.8	179.3
65°	127.6	138.2	150.6	131.7	119.6
67.5°	103.1	105.2	118.1	91.9	77.5
70°	91.6	91.6	95.2	71.1	59.1
72.5°	80.6	80.6	77.3	57.8	45.2
75°	64.2	64.2	58.4	40.1	27.4
77.5°	49.4	48.9	44.7	29.8	19.9
80°	39.6	39.6	36.0	23.6	15.8
82.5°	31.0	31.0	27.9	18.4	11.7
85°	17.9	17.9	16.7	10.8	6.5
87.5°	6.4	6.4	5.7	3.4	2.9
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	15.19	16.57	15.56	16.88	17.20	15.82	17.19	16.18	17.51	17.82
	3H	16.17	17.39	16.55	17.72	18.08	16.28	17.50	16.66	17.83	18.19
	4H	16.61	17.75	17.01	18.10	18.48	16.36	17.50	16.76	17.85	18.23
	6H	16.92	17.97	17.33	18.33	18.73	16.37	17.42	16.78	17.79	18.18
	8H	17.05	18.04	17.47	18.43	18.84	16.36	17.36	16.79	17.75	18.15
	12H	17.13	18.08	17.56	18.46	18.89	16.35	17.30	16.78	17.68	18.11
4H	2H	15.68	16.82	16.09	17.18	17.56	16.20	17.34	16.60	17.69	18.07
	3H	16.85	17.79	17.26	18.19	18.59	16.83	17.77	17.25	18.17	18.58
	4H	17.39	18.22	17.82	18.64	19.08	16.97	17.81	17.40	18.22	18.67
	6H	17.81	18.53	18.27	18.98	19.44	17.04	17.76	17.50	18.21	18.67
	8H	17.98	18.66	18.45	19.10	19.57	17.05	17.72	17.52	18.17	18.64
	12H	18.11	18.71	18.59	19.19	19.66	17.05	17.65	17.53	18.13	18.60
8H	4H	17.49	18.17	17.96	18.62	19.09	17.11	17.79	17.58	18.24	18.71
	6H	18.03	18.58	18.53	19.08	19.56	17.26	17.82	17.76	18.31	18.79
	8H	18.29	18.79	18.81	19.30	19.79	17.31	17.81	17.83	18.33	18.82
	12H	18.50	18.94	19.01	19.43	20.00	17.35	17.79	17.86	18.28	18.85
12H	4H	17.48	18.08	17.96	18.56	19.03	17.12	17.72	17.61	18.20	18.67
	6H	18.03	18.53	18.55	19.05	19.54	17.30	17.80	17.82	18.31	18.80
	8H	18.35	18.79	18.87	19.29	19.85	17.41	17.84	17.92	18.34	18.91