

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: P1036366

Luminaire Tested: SQ4R-WB-075D-B2750-1D-UNV-W2A_2700K

Issue Date: 8/14/2023

Test Information

Test Method: LM-79-2019
Report Number: P1036366
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-B2750-1D-UNV-W2A_2700K
Description: CORELITE SQ4 SUSPENDED LED LUMINAIRE WITH, DIRECT ONLY 750 LUMENS PER FOOT DOV

Light Source: -
Ballast/Driver: -

Summary

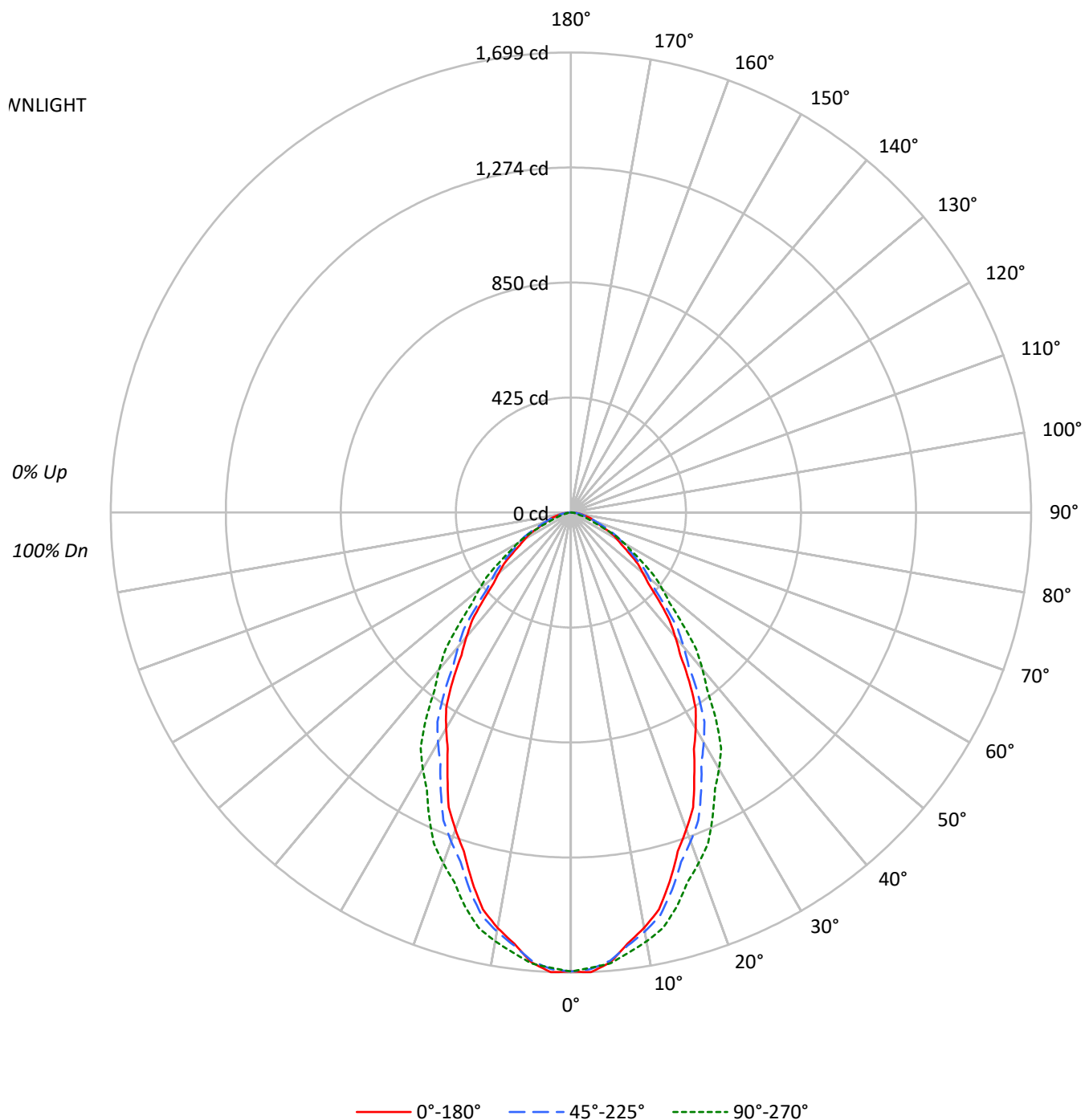
Lumens per Lamp: N/A
Luminaire Lumens: 2470.0 lumens
Efficiency: N/A
Efficacy: 96.5 lumens/watt
Spacing Criteria (0/90/45): 0.89 / 1 / 1.02
Luminous Opening: Rectangular (W 0.29' x L: 4' x H: 0')
CIE Type: Direct

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°	15638	15638	15638
5°	15444	15388	15479
10°	14591	14724	15065
15°	13469	13783	14400
20°	12232	12691	13531
25°	10972	11570	12607
30°	9810	10451	11647
35°	8578	9197	10514
40°	7219	7794	9102
45°	5958	6472	7599
50°	4973	5423	6330
55°	4222	4654	5228
60°	3611	4036	4172
65°	2875	3393	2694
70°	2549	2649	1646
75°	2360	2150	1009
80°	2173	1976	866
85°	1958	1821	709

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 90°

Vertical Angle: 45°

Luminance: 7599 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	155.5	6.3
10°-20°	404.4	16.4
20°-30°	523.8	21.2
30°-40°	513.0	20.8
40°-50°	392.6	15.9
50°-60°	261.6	10.6
60°-70°	142.8	5.8
70°-80°	59.5	2.4
80°-90°	16.8	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°	1083.7	43.9
0°-40°	1596.6	64.6
0°-60°	2250.9	91.1
0°-90°	2470.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2470.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1695	1695	1695	1695	1695	
5°	1668	1651	1662	1665	1671	155
15°	1410	1405	1443	1482	1508	394
25°	1078	1081	1136	1186	1238	496
35°	762	765	817	872	934	473
45°	457	465	496	534	582	356
55°	262	273	289	300	325	238
65°	132	143	155	136	123	137
75°	66	66	60	41	28	71
85°	18	18	17	11	7	21
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1695.0	1695.0	1695.0	1695.0	1695.0
2.5°	1699.2	1684.1	1688.0	1687.8	1683.1
5°	1667.6	1650.7	1661.5	1665.4	1671.3
7.5°	1605.6	1593.0	1612.7	1627.2	1639.0
10°	1557.5	1546.5	1571.6	1592.8	1608.0
12.5°	1501.6	1492.3	1523.5	1551.7	1571.8
15°	1410.1	1405.1	1443.0	1482.2	1507.6
17.5°	1312.5	1310.0	1353.4	1399.2	1431.7
20°	1245.8	1245.1	1292.6	1340.4	1378.1
22.5°	1178.6	1180.1	1230.1	1279.8	1322.9
25°	1077.8	1080.6	1136.5	1186.0	1238.4
27.5°	984.5	985.8	1043.4	1095.8	1151.7
30°	920.8	924.4	981.0	1035.2	1093.3
32.5°	857.2	861.4	916.8	972.7	1032.0
35°	761.6	765.3	816.6	871.7	933.5
37.5°	663.1	668.1	713.7	765.6	826.6
40°	599.4	606.8	647.1	696.1	755.7
42.5°	538.1	547.2	584.6	631.1	684.8
45°	456.6	465.4	496.0	533.6	582.4
47.5°	386.4	396.5	420.1	452.4	494.0
50°	346.5	356.1	377.8	401.7	441.0
52.5°	311.5	320.9	340.3	358.8	392.3
55°	262.5	273.4	289.3	300.4	325.0
57.5°	222.4	232.9	245.5	250.4	265.4
60°	195.7	207.3	218.7	218.0	226.1
62.5°	171.2	181.2	192.5	184.5	185.0
65°	131.7	142.6	155.4	135.9	123.4
67.5°	106.4	108.6	121.9	94.8	80.0
70°	94.5	94.5	98.2	73.4	61.0
72.5°	83.2	83.2	79.8	59.6	46.6
75°	66.2	66.2	60.3	41.4	28.3
77.5°	51.0	50.5	46.1	30.8	20.5
80°	40.9	40.9	37.2	24.4	16.3
82.5°	32.0	32.0	28.8	19.0	12.1
85°	18.5	18.5	17.2	11.1	6.7
87.5°	6.6	6.6	5.9	3.5	3.0
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	15.30	16.68	15.67	16.99	17.31	15.93	17.30	16.29	17.61	17.93
	3H	16.28	17.50	16.66	17.83	18.19	16.39	17.61	16.76	17.94	18.30
	4H	16.72	17.86	17.12	18.21	18.59	16.46	17.60	16.87	17.95	18.34
	6H	17.03	18.07	17.44	18.44	18.84	16.48	17.52	16.89	17.89	18.29
	8H	17.15	18.15	17.58	18.54	18.94	16.47	17.47	16.90	17.86	18.26
	12H	17.24	18.19	17.67	18.57	19.00	16.45	17.41	16.89	17.79	18.22
4H	2H	15.79	16.93	16.20	17.28	17.67	16.31	17.45	16.71	17.80	18.18
	3H	16.96	17.90	17.37	18.30	18.70	16.94	17.88	17.36	18.28	18.69
	4H	17.49	18.33	17.93	18.75	19.19	17.08	17.91	17.51	18.33	18.78
	6H	17.91	18.64	18.38	19.08	19.55	17.15	17.87	17.61	18.32	18.78
	8H	18.09	18.77	18.56	19.21	19.68	17.16	17.83	17.62	18.28	18.75
	12H	18.22	18.82	18.70	19.30	19.77	17.16	17.75	17.64	18.24	18.71
8H	4H	17.60	18.28	18.07	18.73	19.20	17.22	17.90	17.69	18.35	18.82
	6H	18.14	18.69	18.64	19.19	19.67	17.37	17.92	17.87	18.42	18.90
	8H	18.40	18.90	18.92	19.41	19.90	17.42	17.92	17.94	18.43	18.93
	12H	18.61	19.05	19.12	19.54	20.11	17.46	17.90	17.97	18.39	18.96
12H	4H	17.58	18.18	18.07	18.67	19.14	17.23	17.83	17.71	18.31	18.78
	6H	18.14	18.64	18.66	19.16	19.65	17.41	17.91	17.93	18.42	18.91
	8H	18.46	18.90	18.98	19.40	19.96	17.51	17.95	18.03	18.45	19.02