

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: P688769

Luminaire Tested: SQ4R-PH1-125D-93050-1-UNV-STD-W-4_3000K

Issue Date: 5/22/2023

Test Information

Test Method: LM-79-2019
Report Number: P688769
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2203-586-36)
Test Lab: INNOVATION CENTER
Issue Date: 5/22/2023
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: CORELITE
Catalog Number: SQ4R-PH1-125D-93050-1-UNV-STD-W-4_3000K
Description: CORELITE SQ4R RECESSED LED LUMINAIRE WITH PERCEIVE HEX CONTINUOUS LENS.
1250 LUMENS PER FOOT
Light Source: 3000K CCT, 90 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4727.0 lumens
Efficiency: N/A
Efficacy: 77.1 lumens/watt
Spacing Criteria (0/90/45): 1.23 / 1.22 / 1.28
Luminous Opening: Rectangular (W 0.29' x L: 3.83' x H: 0')
CIE Type: Direct

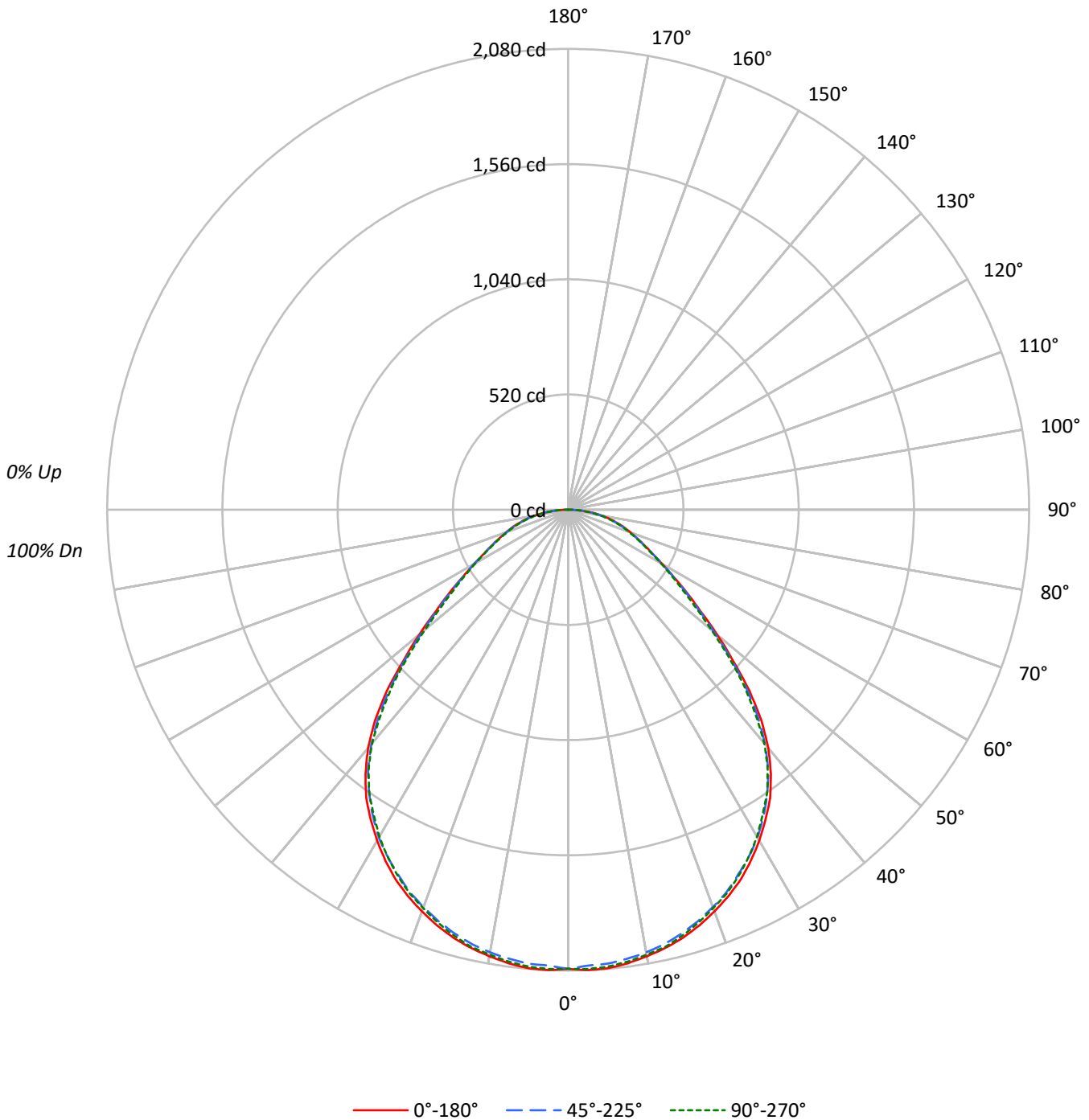
Input Watts (W): 61.3
Input Voltage (V): 120
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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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	119	119	119	119	116	116	116	116	111	111	111		106	106	106		102	102	102	100
1	110	105	102	98	107	103	100	96	99	96	93		95	93	91		92	90	88	86
2	101	93	87	82	98	91	86	81	88	83	79		85	81	77		82	79	76	74
3	93	83	76	70	90	82	75	69	79	73	68		76	71	67		73	69	66	64
4	86	75	66	60	83	73	66	60	71	64	59		69	63	58		66	62	57	55
5	79	67	59	53	77	66	58	52	64	57	52		62	56	51		60	55	51	49
6	74	61	53	47	72	60	52	46	58	51	46		57	50	46		55	50	45	43
7	68	56	47	42	67	55	47	41	53	46	41		52	46	41		51	45	41	39
8	64	51	43	37	62	50	43	37	49	42	37		48	42	37		47	41	37	35
9	60	47	39	34	58	47	39	34	45	39	34		44	38	34		43	38	33	32
10	56	44	36	31	55	43	36	31	42	35	31		41	35	31		40	35	31	29

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	19951	19951	19951
5°	20076	19878	20002
10°	20008	19833	19933
15°	19940	19737	19838
20°	19763	19553	19606
25°	19567	19295	19350
30°	19169	18998	18942
35°	18672	18401	18372
40°	17651	17362	17298
45°	15745	15431	15257
50°	13143	12875	12607
55°	10950	10821	10564
60°	9408	9458	9262
65°	8625	8568	8451
70°	8354	8281	8138
75°	8470	8280	8090
80°	8510	8366	8083
85°	8196	8196	7633

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 15745 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	196.5	4.2
10°-20°	561.5	11.9
20°-30°	841.2	17.8
30°-40°	978.8	20.7
40°-50°	870.5	18.4
50°-60°	584.5	12.4
60°-70°	377.8	8.0
70°-80°	235.5	5.0
80°-90°	80.7	1.7
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°	1599.2	33.8
0°-40°	2578.0	54.5
0°-60°	4033.0	85.3
0°-90°	4727.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4727.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2072	2072	2072	2072	2072	
5°	2077	2072	2057	2072	2070	197
15°	2001	1996	1980	1993	1990	564
25°	1842	1834	1816	1827	1822	847
35°	1589	1581	1566	1566	1563	988
45°	1156	1151	1133	1118	1121	884
55°	652	652	645	634	629	591
65°	379	381	376	374	371	379
75°	228	225	223	223	218	240
85°	74	77	74	72	69	82
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2072.3	2072.3	2072.3	2072.3	2072.3
2.5°	2080.0	2074.8	2059.5	2077.4	2074.8
5°	2077.4	2072.3	2056.9	2072.3	2069.7
7.5°	2064.6	2062.0	2044.1	2062.0	2056.9
10°	2046.7	2046.7	2028.8	2044.1	2039.0
12.5°	2026.2	2023.7	2008.3	2023.7	2021.1
15°	2000.6	1995.5	1980.2	1993.0	1990.4
17.5°	1967.4	1964.8	1946.9	1959.7	1954.6
20°	1929.0	1923.9	1908.5	1918.8	1913.7
22.5°	1888.1	1883.0	1867.6	1875.3	1872.7
25°	1842.0	1834.3	1816.4	1826.7	1821.6
27.5°	1785.7	1783.2	1765.3	1770.4	1765.3
30°	1724.3	1721.8	1709.0	1709.0	1703.9
32.5°	1657.8	1660.4	1639.9	1642.5	1632.2
35°	1588.7	1581.1	1565.7	1565.7	1563.2
37.5°	1501.8	1496.6	1483.9	1481.3	1478.7
40°	1404.5	1399.4	1381.5	1376.4	1376.4
42.5°	1289.4	1284.3	1266.4	1258.7	1248.5
45°	1156.4	1151.3	1133.4	1118.0	1120.6
47.5°	1008.0	1013.1	995.2	982.4	979.9
50°	877.5	875.0	859.6	851.9	841.7
52.5°	752.2	754.7	741.9	736.8	724.0
55°	652.4	652.4	644.7	634.5	629.4
57.5°	562.8	568.0	560.3	555.2	550.0
60°	488.6	491.2	491.2	481.0	481.0
62.5°	427.2	429.8	427.2	422.1	422.1
65°	378.6	381.2	376.1	373.5	371.0
67.5°	335.1	337.7	335.1	332.6	327.5
70°	296.8	296.8	294.2	294.2	289.1
72.5°	263.5	261.0	258.4	258.4	255.8
75°	227.7	225.1	222.6	222.6	217.5
77.5°	191.9	189.3	189.3	184.2	181.6
80°	153.5	153.5	150.9	148.4	145.8
82.5°	117.7	115.1	112.6	110.0	107.5
85°	74.2	76.8	74.2	71.6	69.1
87.5°	33.3	35.8	35.8	35.8	33.3
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)