

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: P688556

Luminaire Tested: SQ4R-PP3-125D-840-1-UNV-STD-W-4

Issue Date: 5/22/2023

Test Information

Test Method: LM-79-2019
Report Number: P688556
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2103-172-1)
Test Lab: INNOVATION CENTER
Issue Date: 5/22/2023
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: CORELITE
Catalog Number: SQ4R-PP3-125D-840-1-UNV-STD-W-4
Description: CORELITE SQ4R RECESSED LED LUMINAIRE WITH PERCEIVE PRISM CONTINUOUS LENS.
1250 LUMENS PER FOOT
Light Source: 4000K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 5028.7 lumens
Efficiency: N/A
Efficacy: 101.6 lumens/watt
Spacing Criteria (0/90/45): 1.24 / 1.22 / 1.33
Luminous Opening: Rectangular (W 0.29' x L: 3.83' x H: 0')
CIE Type: Direct

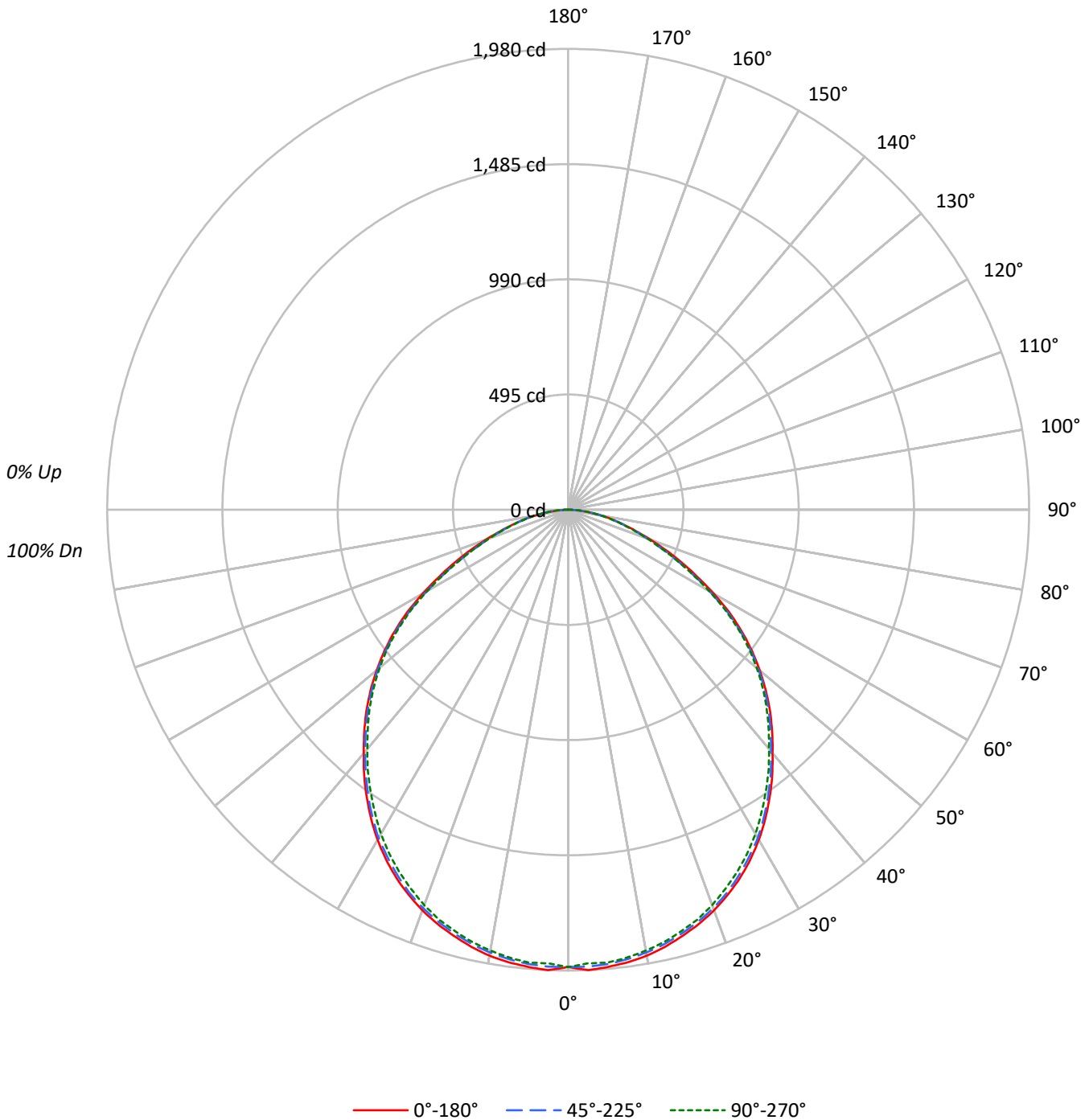
Input Watts (W): 49.5
Input Voltage (V): 120
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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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	109	105	101	97	107	103	99	96	98	95	93		95	92	90		91	89	87	85
2	100	92	86	80	97	90	84	79	87	82	77		84	79	76		81	77	74	72
3	92	81	74	67	89	80	73	67	77	71	66		74	69	64		72	67	63	61
4	84	72	64	57	82	71	63	57	69	62	56		66	60	56		64	59	55	53
5	77	65	56	50	75	64	56	50	62	55	49		60	53	48		58	52	48	46
6	72	59	50	44	70	58	49	43	56	49	43		54	48	43		53	47	42	40
7	66	53	45	39	65	52	44	39	51	44	38		49	43	38		48	42	38	36
8	62	49	40	35	60	48	40	34	47	39	34		45	39	34		44	38	34	32
9	58	45	37	31	56	44	36	31	43	36	31		42	35	31		41	35	31	29
10	54	41	34	28	53	41	33	28	40	33	28		39	33	28		38	32	28	26

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	18916	18916	18916
5°	19055	18939	18872
10°	19023	18888	18804
15°	18897	18794	18691
20°	18771	18666	18524
25°	18548	18421	18238
30°	18205	18109	17880
35°	17729	17608	17385
40°	17162	17054	16859
45°	16693	16576	16412
50°	16093	15991	15836
55°	15261	15059	14943
60°	13892	13496	13428
65°	12240	11730	11691
70°	10567	10131	10131
75°	9095	8968	8838
80°	8022	8117	7923
85°	6274	6849	6849

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 16693 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	185.9	3.7
10°-20°	530.8	10.6
20°-30°	795.1	15.8
30°-40°	932.5	18.5
40°-50°	935.4	18.6
50°-60°	798.7	15.9
60°-70°	519.1	10.3
70°-80°	260.0	5.2
80°-90°	71.3	1.4
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°	1511.8	30.1
0°-40°	2444.3	48.6
0°-60°	4178.4	83.1
0°-90°	5028.7	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5028.7	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1965	1965	1965	1965	1965	
5°	1972	1953	1960	1953	1953	187
15°	1896	1877	1886	1879	1875	535
25°	1746	1726	1734	1719	1717	804
35°	1508	1493	1498	1481	1479	943
45°	1226	1218	1218	1205	1205	945
55°	909	906	897	892	890	809
65°	537	527	515	511	513	536
75°	244	244	241	239	238	264
85°	57	62	62	62	62	67
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1964.8	1964.8	1964.8	1964.8	1964.8
2.5°	1980.3	1959.7	1964.8	1961.4	1951.1
5°	1971.7	1952.8	1959.7	1952.8	1952.8
7.5°	1961.4	1940.7	1947.6	1940.7	1940.7
10°	1945.9	1925.2	1932.1	1925.2	1923.5
12.5°	1923.5	1902.8	1911.4	1902.8	1902.8
15°	1896.0	1877.0	1885.6	1878.7	1875.3
17.5°	1866.7	1846.0	1856.3	1847.7	1846.0
20°	1832.2	1811.6	1821.9	1808.1	1808.1
22.5°	1790.9	1770.2	1782.3	1763.4	1763.4
25°	1746.1	1725.5	1734.1	1718.6	1716.9
27.5°	1694.5	1673.8	1682.4	1665.2	1665.2
30°	1637.6	1618.7	1629.0	1610.1	1608.4
32.5°	1575.7	1558.4	1565.3	1546.4	1544.7
35°	1508.5	1493.0	1498.2	1480.9	1479.2
37.5°	1439.6	1422.4	1429.3	1413.8	1413.8
40°	1365.6	1355.2	1357.0	1344.9	1341.5
42.5°	1296.7	1284.6	1286.4	1274.3	1274.3
45°	1226.1	1217.5	1217.5	1205.4	1205.4
47.5°	1152.0	1145.1	1143.4	1133.1	1133.1
50°	1074.5	1069.4	1067.7	1059.0	1057.3
52.5°	993.6	991.9	985.0	978.1	978.1
55°	909.2	905.8	897.2	892.0	890.3
57.5°	819.7	812.8	804.2	795.6	797.3
60°	721.5	714.6	700.9	697.4	697.4
62.5°	626.8	618.2	604.4	599.3	602.7
65°	537.3	526.9	514.9	511.4	513.2
67.5°	454.6	444.3	430.5	430.5	428.8
70°	375.4	370.2	359.9	359.9	359.9
72.5°	304.8	303.1	296.2	296.2	294.5
75°	244.5	244.5	241.1	239.4	237.6
77.5°	192.9	192.9	191.1	189.4	186.0
80°	144.7	148.1	146.4	144.7	142.9
82.5°	99.9	103.3	103.3	99.9	99.9
85°	56.8	62.0	62.0	62.0	62.0
87.5°	18.9	25.8	27.6	27.6	29.3
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)