

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

(formerly Eaton)

Brand: CORELITE

Report Number: P563492

Luminaire Tested: **SQ4-PP3-0U-075D-830-1D-UNV-STD-W-8**

Issue Date: 7/30/2021

Test Information

Test Method: LM-79-2019
Report Number: P563492
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2103-172-1)
Test Lab: INNOVATION CENTER
Issue Date: 7/30/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: CORELITE
Catalog Number: SQ4-PP3-0U-075D-830-1D-UNV-STD-W-8
Description: CORELITE SQ4 SUSPENDED LED LUMINAIRE WITH PERCEIVE PRISM CONTINUOUS LENS.
DOWNLIGHT 750 LUMENS PER FOOT
DIRECT ONLY
Light Source: 3000K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

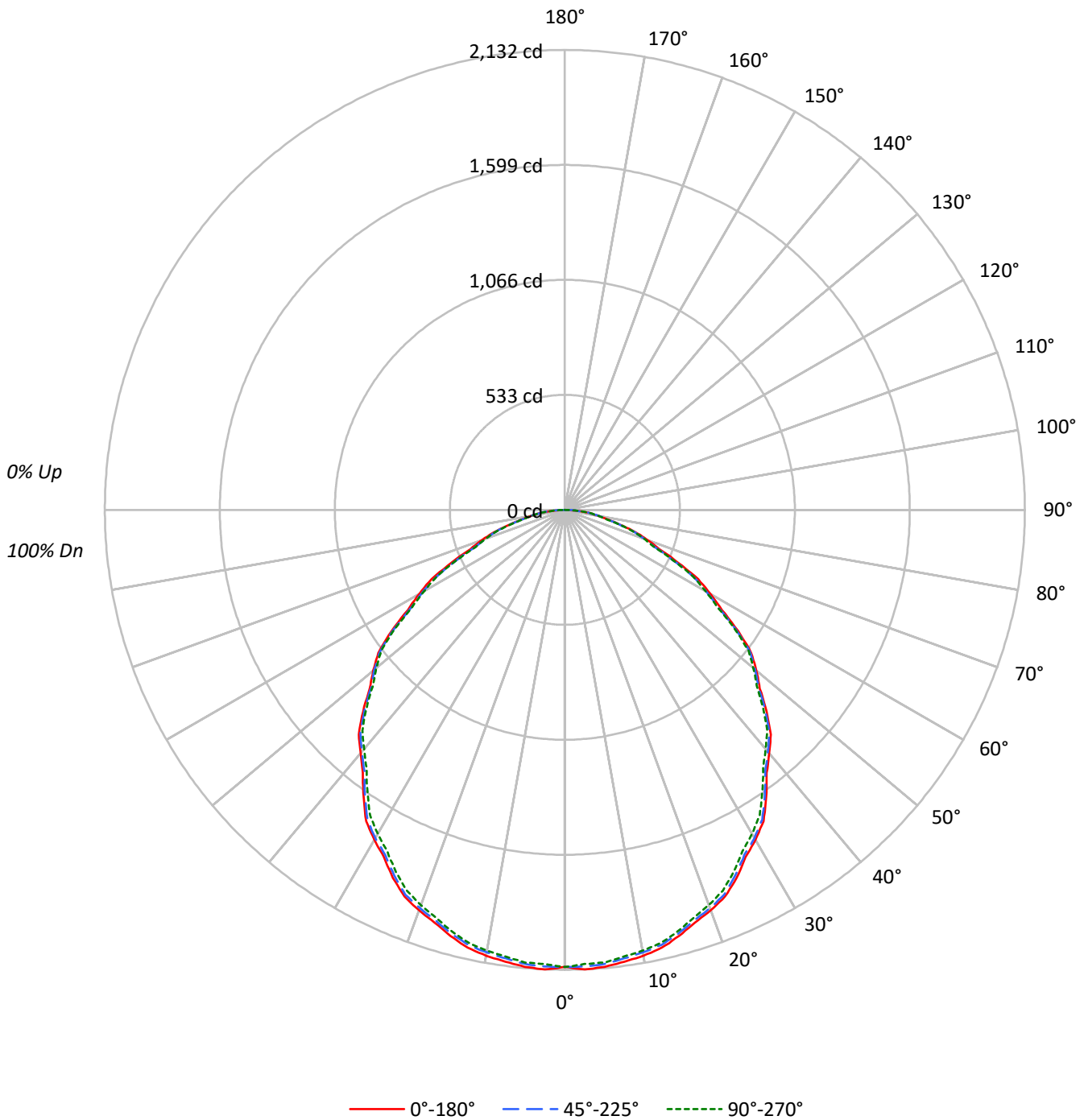
Lumens per Lamp: N/A
Luminaire Lumens: 5423.8 lumens
Efficiency: N/A
Efficacy: 99.7 lumens/watt
Spacing Criteria (0/90/45): 1.24 / 1.22 / 1.33
Luminous Opening: Rectangular (W 0.29' x L: 8' x H: 0')
CIE Type: Direct

Input Watts (W): 54.4
Input Voltage (V): 120
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	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	49	62	54	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°	9776	9776	9776
5°	9848	9787	9753
10°	9831	9761	9718
15°	9766	9713	9660
20°	9701	9646	9573
25°	9586	9520	9425
30°	9409	9359	9240
35°	9163	9099	8985
40°	8869	8813	8713
45°	8627	8567	8482
50°	8317	8264	8184
55°	7887	7782	7723
60°	7180	6974	6940
65°	6326	6061	6042
70°	5461	5236	5236
75°	4700	4634	4568
80°	4144	4195	4096
85°	3245	3541	3541



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	200.4	3.7
10°-20°	572.2	10.5
20°-30°	857.0	15.8
30°-40°	1005.2	18.5
40°-50°	1008.4	18.6
50°-60°	860.2	15.9
60°-70°	561.0	10.3
70°-80°	281.5	5.2
80°-90°	77.9	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°	1629.6	30.0
0°-40°	2634.8	48.6
0°-60°	4503.4	83.0
0°-90°	5423.8	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5423.8	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2119	2119	2119	2119	2119	
5°	2127	2107	2114	2106	2106	202
15°	2045	2025	2034	2026	2023	577
25°	1883	1862	1870	1854	1852	866
35°	1627	1611	1616	1597	1595	1016
45°	1322	1313	1313	1300	1300	1018
55°	981	977	968	962	960	871
65°	580	569	555	552	554	578
75°	264	264	260	258	256	286
85°	61	67	67	67	67	74
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2119.1	2119.1	2119.1	2119.1	2119.1
2.5°	2132.5	2115.1	2119.1	2116.0	2107.2
5°	2126.6	2106.6	2113.6	2106.1	2106.1
7.5°	2112.1	2090.3	2097.2	2089.8	2089.4
10°	2098.7	2076.9	2083.8	2076.4	2074.6
12.5°	2079.4	2057.6	2066.0	2057.1	2056.7
15°	2044.8	2024.9	2033.7	2026.2	2022.6
17.5°	2005.8	1984.0	1994.7	1984.3	1982.8
20°	1976.1	1954.3	1965.0	1950.1	1950.1
22.5°	1940.5	1918.7	1930.8	1911.5	1911.5
25°	1883.3	1861.5	1870.3	1853.5	1851.7
27.5°	1815.3	1793.9	1803.0	1784.1	1783.7
30°	1766.3	1746.3	1757.0	1736.5	1734.7
32.5°	1712.8	1694.2	1702.0	1681.5	1679.7
35°	1627.0	1610.6	1615.8	1597.2	1595.4
37.5°	1536.7	1520.0	1525.9	1509.9	1509.2
40°	1472.8	1461.9	1463.5	1450.4	1446.8
42.5°	1413.4	1401.0	1402.6	1389.6	1388.9
45°	1322.4	1313.3	1313.1	1300.1	1300.1
47.5°	1225.8	1218.9	1216.9	1206.1	1205.7
50°	1158.9	1153.5	1151.5	1142.2	1140.4
52.5°	1089.1	1086.6	1080.2	1072.4	1072.0
55°	980.6	977.0	967.6	962.0	960.2
57.5°	862.9	855.6	845.1	836.9	838.4
60°	778.2	770.9	755.9	752.2	752.2
62.5°	696.5	687.8	672.7	667.6	670.5
65°	579.5	568.6	555.3	551.6	553.5
67.5°	473.2	463.4	449.1	449.1	447.6
70°	404.9	399.4	388.2	388.2	388.2
72.5°	344.0	341.4	333.2	333.2	331.7
75°	263.7	263.7	260.0	258.1	256.3
77.5°	197.6	198.3	196.5	194.6	191.3
80°	156.0	159.6	157.9	156.0	154.2
82.5°	117.4	121.0	120.7	117.4	117.0
85°	61.3	66.7	66.9	66.9	66.9
87.5°	16.3	22.2	23.8	23.8	25.3
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)