

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: P563300

Luminaire Tested: **SQ4-PP3-050U-075D-830-1D-UNV-STD-W-8**

Issue Date: 7/30/2021

Test Information

Test Method: LM-79-2019
Report Number: P563300
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1910-536-21, 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-PP3-050U-075D-830-1D-UNV-STD-W-8
Description: CORELITE SQ4 SUSPENDED LED LUMINAIRE WITH PERCEIVE PRISM CONTINUOUS LENS.
DOWNLIGHT 750 LUMENS PER FOOT
UPLIGHT 500 LUMENS PER FOOT
Light Source: 3000K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

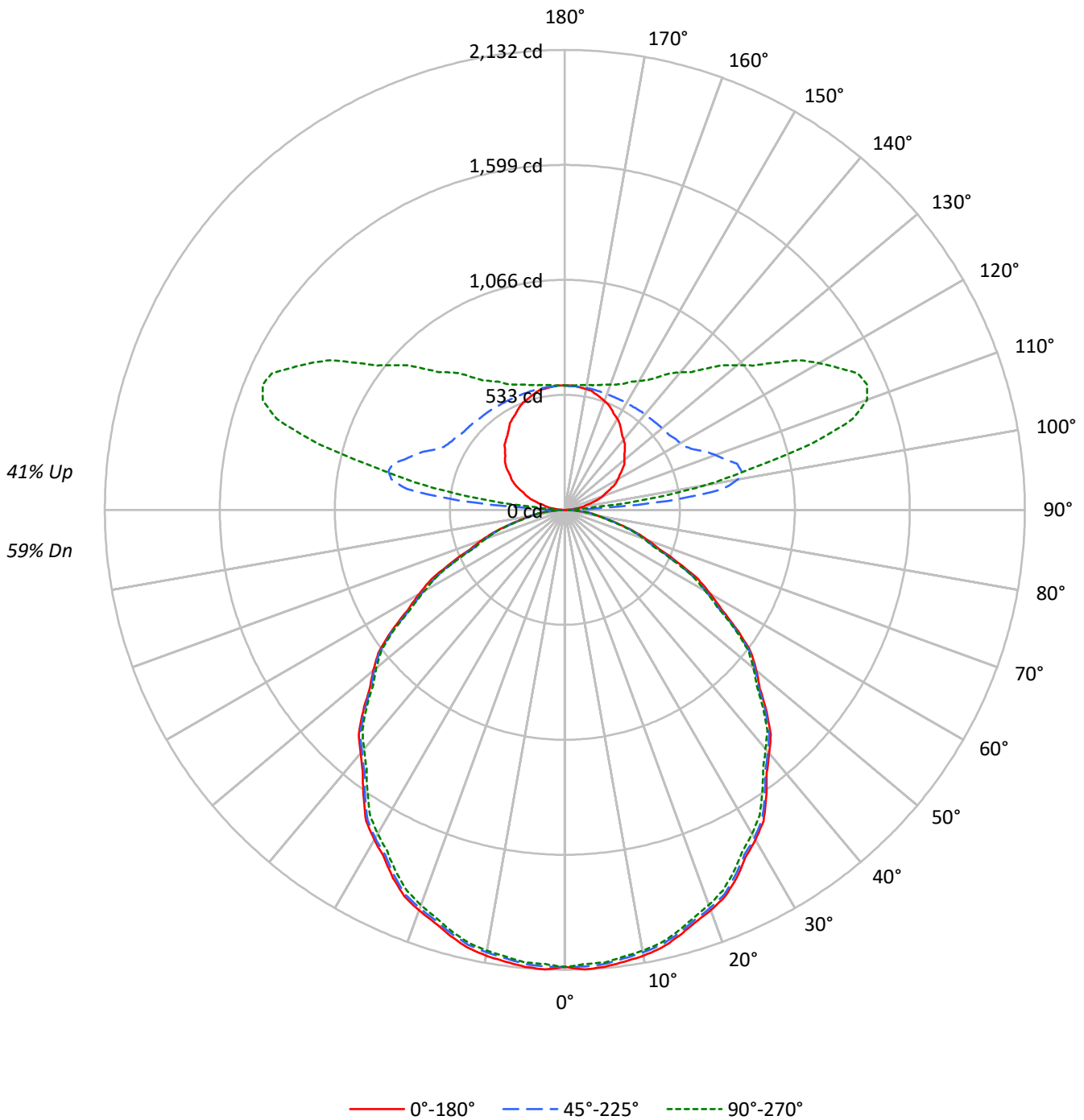
Lumens per Lamp: N/A
Luminaire Lumens: 9186.4 lumens
Efficiency: N/A
Efficacy: 117.6 lumens/watt
Spacing Criteria (0/90/45): 1.24 / 1.22 / 1.33
Luminous Opening: Rectangular (W 0.29' x L: 8' x H: 0')
CIE Type: General Diffuse

Input Watts (W): 78.1
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	109	109	109	109	102	102	102	102	88	88	88	76	76	76	64	64	64	59
1	100	96	92	88	93	90	86	83	78	75	73	67	65	64	57	56	55	50
2	91	84	78	73	85	79	73	69	69	64	61	59	56	54	51	49	47	42
3	83	74	67	61	78	69	63	58	61	56	51	53	49	46	45	42	40	36
4	76	66	58	52	71	62	54	49	54	48	44	47	43	39	40	37	34	31
5	70	58	50	44	65	55	48	42	48	43	38	42	38	34	36	33	30	27
6	65	53	44	38	60	49	42	37	44	38	33	38	33	30	33	29	27	24
7	60	47	39	34	56	45	37	32	40	34	29	35	30	26	30	26	24	21
8	56	43	35	30	52	41	34	29	36	30	26	32	27	24	28	24	21	19
9	52	39	32	27	48	37	30	26	33	27	23	29	25	21	26	22	19	17
10	48	36	29	24	45	34	28	23	31	25	21	27	22	19	24	20	17	15

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	2.2
10°-20°	572.2	6.2
20°-30°	857.0	9.3
30°-40°	1005.2	10.9
40°-50°	1008.4	11.0
50°-60°	860.2	9.4
60°-70°	561.0	6.1
70°-80°	281.5	3.1
80°-90°	80.1	0.9
90°-100°	276.5	3.0
100°-110°	751.0	8.2
110°-120°	772.2	8.4
120°-130°	617.4	6.7
130°-140°	485.1	5.3
140°-150°	372.0	4.0
150°-160°	267.5	2.9
160°-170°	163.6	1.8
170°-180°	55.1	0.6
0°-30°	1629.6	17.7
0°-40°	2634.8	28.7
0°-60°	4503.4	49.0
0°-90°	5426.1	59.1
90°-120°	1799.7	19.6
90°-150°	3274.1	35.6
90°-180°	3760.0	40.9
0°-180°	9186.4	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	72
90°	2	7	13	17	17	5
95°	41	151	482	210	141	43
105°	133	208	826	1258	1183	142
115°	237	288	661	1315	1498	234
125°	326	371	598	1008	1189	291
135°	393	436	582	821	926	304
145°	454	486	574	698	750	285
155°	513	531	570	626	644	237
165°	556	563	572	596	598	157
175°	576	578	574	581	580	55
180°	576	576	576	576	576	

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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°	16.7	23.6	26.4	27.1	28.6
90°	1.9	7.3	13.0	16.7	16.7
92.5°	16.7	75.7	131.5	56.5	47.8
95°	40.7	151.2	481.5	209.5	140.7
97.5°	67.4	167.0	738.1	574.3	403.3
100°	85.2	177.5	816.7	827.8	668.5
102.5°	103.0	188.1	837.4	1023.8	883.3
105°	133.3	207.6	825.9	1257.5	1183.3
107.5°	164.8	230.4	778.1	1378.2	1398.9
110°	187.0	246.8	742.6	1402.0	1490.7



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	206.3	263.1	707.0	1382.3	1515.9
115°	237.0	287.7	661.1	1315.2	1498.1
117.5°	265.9	314.4	631.8	1220.2	1426.3
120°	285.2	332.3	618.5	1156.5	1361.1
122.5°	301.5	348.6	609.6	1092.6	1290.0
125°	325.9	371.2	598.1	1007.8	1188.9
127.5°	347.8	392.7	591.8	943.5	1098.9
130°	361.1	404.6	588.9	903.2	1042.6
132.5°	374.4	417.9	585.9	868.7	992.2
135°	392.6	436.0	581.5	820.9	925.9
137.5°	412.2	451.7	579.2	778.7	867.0
140°	424.1	462.1	577.8	751.8	831.5
142.5°	435.9	471.0	576.3	730.8	797.4
145°	453.7	486.3	574.1	697.5	750.0
147.5°	473.7	501.6	572.2	671.3	712.6
150°	487.0	510.6	572.2	656.3	688.9
152.5°	497.4	518.0	570.7	642.8	669.6
155°	513.0	531.1	570.4	626.3	644.4
157.5°	528.1	542.3	570.4	615.1	628.9
160°	537.0	549.7	570.4	607.6	618.5
162.5°	545.9	555.7	571.8	601.7	609.6
165°	555.5	562.8	572.2	596.3	598.1
167.5°	565.5	569.2	574.1	590.0	591.5
170°	568.5	572.1	574.1	587.0	587.0
172.5°	571.5	573.6	574.1	584.1	584.1
175°	575.9	577.7	574.1	581.4	579.6
177.5°	577.4	577.4	573.0	578.8	575.9
180°	575.9	575.9	575.9	575.9	575.9

(END OF REPORT)