

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: P563436

Luminaire Tested: **SQ4-PP3-075U-100D-935-1D-UNV-STD-W-8**

Issue Date: 7/30/2021

Test Information

Test Method: LM-79-2019
Report Number: P563436
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1910-536-22, 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-PP3-075U-100D-935-1D-UNV-STD-W-8
Description: CORELITE SQ4 SUSPENDED LED LUMINAIRE WITH PERCEIVE PRISM CONTINUOUS LENS.
DOWNLIGHT 1000 LUMENS PER FOOT
UPLIGHT 750 LUMENS PER FOOT
Light Source: 3500K CCT, 90 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

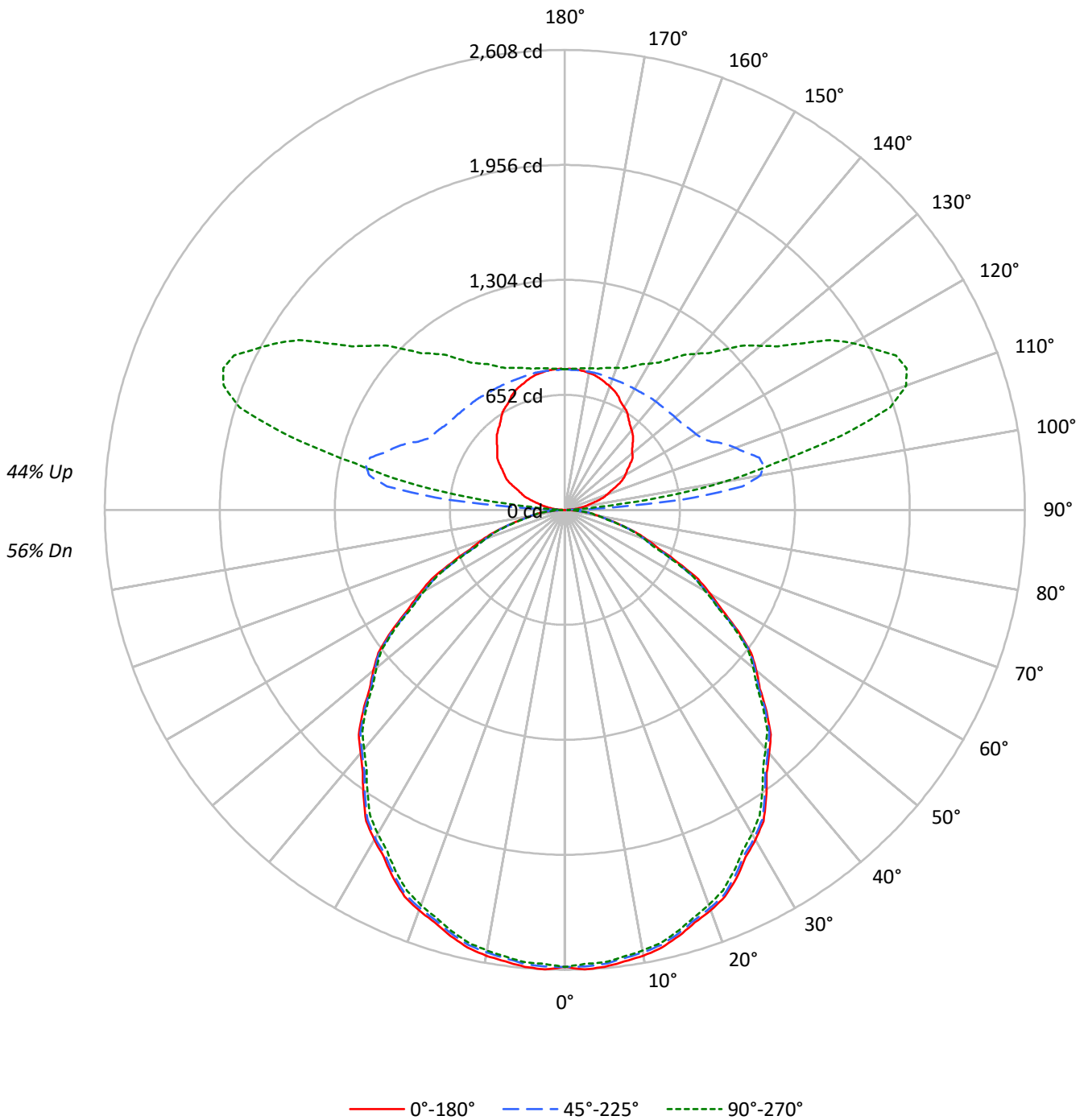
Lumens per Lamp: N/A
Luminaire Lumens: 11838.6 lumens
Efficiency: N/A
Efficacy: 109.3 lumens/watt
Spacing Criteria (0/90/45): 1.24 / 1.22 / 1.33
Luminous Opening: Rectangular (W 0.29' x L: 8' x H: 0')
CIE Type: General Diffuse

Input Watts (W): 108.3
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	101	101	101	101	87	87	87	74	74	74	62	62	62	56
1	99	95	91	88	92	89	85	82	76	74	72	65	63	62	55	54	53	48
2	91	83	77	72	84	78	72	68	67	63	60	58	55	52	49	46	45	40
3	83	73	66	60	77	69	62	57	59	54	50	51	47	44	43	40	38	34
4	76	65	57	51	70	61	54	48	53	47	43	46	41	38	39	36	33	30
5	70	58	50	44	65	54	47	42	47	42	37	41	36	33	35	31	29	26
6	64	52	44	38	60	49	42	36	43	37	33	37	32	29	32	28	25	23
7	59	47	39	33	55	44	37	32	39	33	29	34	29	26	29	25	23	20
8	55	43	35	30	51	40	33	28	35	30	26	31	26	23	27	23	20	18
9	51	39	32	26	48	37	30	25	32	27	23	28	24	21	24	21	18	16
10	48	36	29	24	45	34	27	23	30	24	21	26	22	19	23	19	17	15

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	11957	11957	11957
5°	12045	11971	11929
10°	12025	11939	11886
15°	11945	11880	11814
20°	11865	11799	11709
25°	11725	11644	11528
30°	11508	11447	11302
35°	11207	11130	10989
40°	10848	10780	10656
45°	10552	10478	10374
50°	10173	10108	10010
55°	9646	9519	9445
60°	8781	8531	8488
65°	7737	7414	7390
70°	6679	6404	6404
75°	5750	5668	5588
80°	5069	5130	5008
85°	3970	4330	4330



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	245.1	2.1
10°-20°	699.8	5.9
20°-30°	1048.2	8.9
30°-40°	1229.5	10.4
40°-50°	1233.4	10.4
50°-60°	1052.2	8.9
60°-70°	686.2	5.8
70°-80°	344.3	2.9
80°-90°	97.3	0.8
90°-100°	376.7	3.2
100°-110°	1036.3	8.8
110°-120°	1069.6	9.0
120°-130°	857.0	7.2
130°-140°	673.1	5.7
140°-150°	515.8	4.4
150°-160°	370.9	3.1
160°-170°	226.8	1.9
170°-180°	76.4	0.6
0°-30°	1993.2	16.8
0°-40°	3222.7	27.2
0°-60°	5508.3	46.5
0°-90°	6636.0	56.1
90°-120°	2482.6	21.0
90°-150°	4528.5	38.3
90°-180°	5203.0	43.9
0°-180°	11838.6	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2592	2592	2592	2592	2592	
5°	2601	2577	2585	2576	2576	247
15°	2501	2477	2488	2478	2474	706
25°	2304	2277	2288	2267	2265	1059
35°	1990	1970	1976	1954	1951	1243
45°	1617	1606	1606	1590	1590	1245
55°	1199	1195	1184	1177	1174	1066
65°	709	695	679	675	677	707
75°	323	323	318	316	314	350
85°	75	82	82	82	82	88
90°	2	7	12	15	15	6
95°	56	206	666	285	182	59
105°	185	285	1142	1739	1623	195
115°	328	399	916	1824	2070	324
125°	452	515	831	1406	1646	403
135°	545	605	807	1137	1286	421
145°	630	674	795	968	1043	395
155°	714	737	790	870	896	328
165°	771	781	794	826	831	217
175°	799	800	795	805	804	76
180°	799	799	799	799	799	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2592.0	2592.0	2592.0	2592.0	2592.0
2.5°	2608.3	2587.0	2592.0	2588.1	2577.4
5°	2601.1	2576.6	2585.2	2576.1	2576.1
7.5°	2583.3	2556.7	2565.2	2556.1	2555.6
10°	2567.0	2540.3	2548.8	2539.7	2537.4
12.5°	2543.4	2516.7	2527.0	2516.1	2515.6
15°	2501.1	2476.7	2487.5	2478.3	2473.8
17.5°	2453.4	2426.7	2439.8	2427.0	2425.2
20°	2417.0	2390.4	2403.4	2385.2	2385.2
22.5°	2373.4	2346.8	2361.6	2338.0	2338.0
25°	2303.5	2276.8	2287.6	2267.1	2264.8
27.5°	2220.3	2194.1	2205.3	2182.1	2181.7
30°	2160.4	2135.9	2149.0	2124.0	2121.7
32.5°	2094.9	2072.3	2081.8	2056.7	2054.5
35°	1990.0	1970.0	1976.3	1953.6	1951.4
37.5°	1879.6	1859.1	1866.4	1846.8	1846.0
40°	1801.4	1788.1	1790.1	1774.1	1769.6
42.5°	1728.7	1713.6	1715.6	1699.6	1698.7
45°	1617.4	1606.3	1606.1	1590.2	1590.2
47.5°	1499.3	1490.9	1488.4	1475.2	1474.8
50°	1417.5	1410.9	1408.4	1397.0	1394.8
52.5°	1332.1	1329.0	1321.2	1311.6	1311.2
55°	1199.4	1195.0	1183.5	1176.7	1174.4
57.5°	1055.4	1046.5	1033.6	1023.7	1025.4
60°	951.8	942.9	924.6	920.0	920.0
62.5°	851.9	841.2	822.8	816.5	820.1
65°	708.8	695.4	679.2	674.7	677.0
67.5°	578.8	566.8	549.3	549.2	547.5
70°	495.2	488.6	474.8	474.8	474.8
72.5°	420.7	417.6	407.5	407.5	405.7
75°	322.6	322.6	318.0	315.7	313.5
77.5°	241.7	242.6	240.3	238.0	234.0
80°	190.8	195.3	193.1	190.8	188.5
82.5°	143.6	148.0	147.7	143.6	143.1
85°	75.0	81.6	81.8	81.8	81.8
87.5°	20.3	28.4	31.5	32.2	34.0
90°	1.7	6.7	11.9	15.3	15.3
92.5°	23.4	100.2	173.7	66.7	54.7
95°	56.1	205.6	666.1	284.8	181.8
97.5°	91.4	228.0	1016.4	783.2	552.6
100°	117.2	241.8	1126.5	1137.1	927.7
102.5°	141.7	258.3	1155.1	1410.7	1218.6
105°	185.2	284.9	1141.8	1739.0	1622.7
107.5°	226.7	317.7	1076.9	1899.8	1934.3
110°	256.6	339.6	1028.0	1939.7	2059.4

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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	283.8	364.2	979.0	1914.0	2096.1
115°	327.9	399.4	915.8	1823.7	2069.6
117.5°	370.1	435.9	875.7	1697.0	1975.1
120°	395.9	459.0	858.1	1602.0	1889.5
122.5°	419.0	482.1	845.8	1518.8	1791.6
125°	452.0	515.1	830.9	1405.6	1646.5
127.5°	483.2	543.4	821.0	1311.1	1522.4
130°	499.5	561.0	815.6	1255.0	1447.7
132.5°	518.6	580.1	811.5	1205.6	1379.7
135°	545.4	605.2	807.1	1136.7	1286.3
137.5°	570.6	626.1	803.4	1081.1	1204.4
140°	589.6	641.1	802.0	1044.1	1155.4
142.5°	605.9	653.4	799.3	1011.1	1106.5
145°	630.4	673.6	795.2	968.5	1043.3
147.5°	656.6	693.8	793.2	930.8	990.6
150°	672.9	706.1	791.8	910.1	956.6
152.5°	687.8	718.4	790.4	892.2	930.8
155°	713.6	736.9	790.1	870.5	895.5
157.5°	732.3	751.3	790.1	852.7	870.0
160°	745.9	760.9	790.1	843.1	856.4
162.5°	756.8	769.1	791.5	834.9	845.5
165°	771.4	781.4	793.5	825.9	830.9
167.5°	781.6	789.2	795.2	818.3	819.7
170°	788.4	793.4	795.2	815.6	815.6
172.5°	793.8	796.2	795.2	811.5	810.2
175°	798.6	800.3	795.2	805.4	803.7
177.5°	800.0	800.0	794.5	802.6	800.0
180°	798.6	798.6	798.6	798.6	798.6

(END OF REPORT)