

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: P562740

Luminaire Tested: **SQ4-PC3-075U-075D-935-1D-UNV-STD-W-8**

Issue Date: 7/30/2021

Test Information

Test Method: LM-79-2019
Report Number: P562740
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1910-536-22, G2-2106-289-1)
Test Lab: INNOVATION CENTER
Issue Date: 7/30/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: CORELITE
Catalog Number: SQ4-PC3-075U-075D-935-1D-UNV-STD-W-8
Description: CORELITE SQ4 SUSPENDED LED LUMINAIRE WITH PERCEIVE PYRAMID CONTINUOUS LENS.
DOWNLIGHT 750 LUMENS PER FOOT
UPLIGHT 750 LUMENS PER FOOT
Light Source: 3500K CCT, 90 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

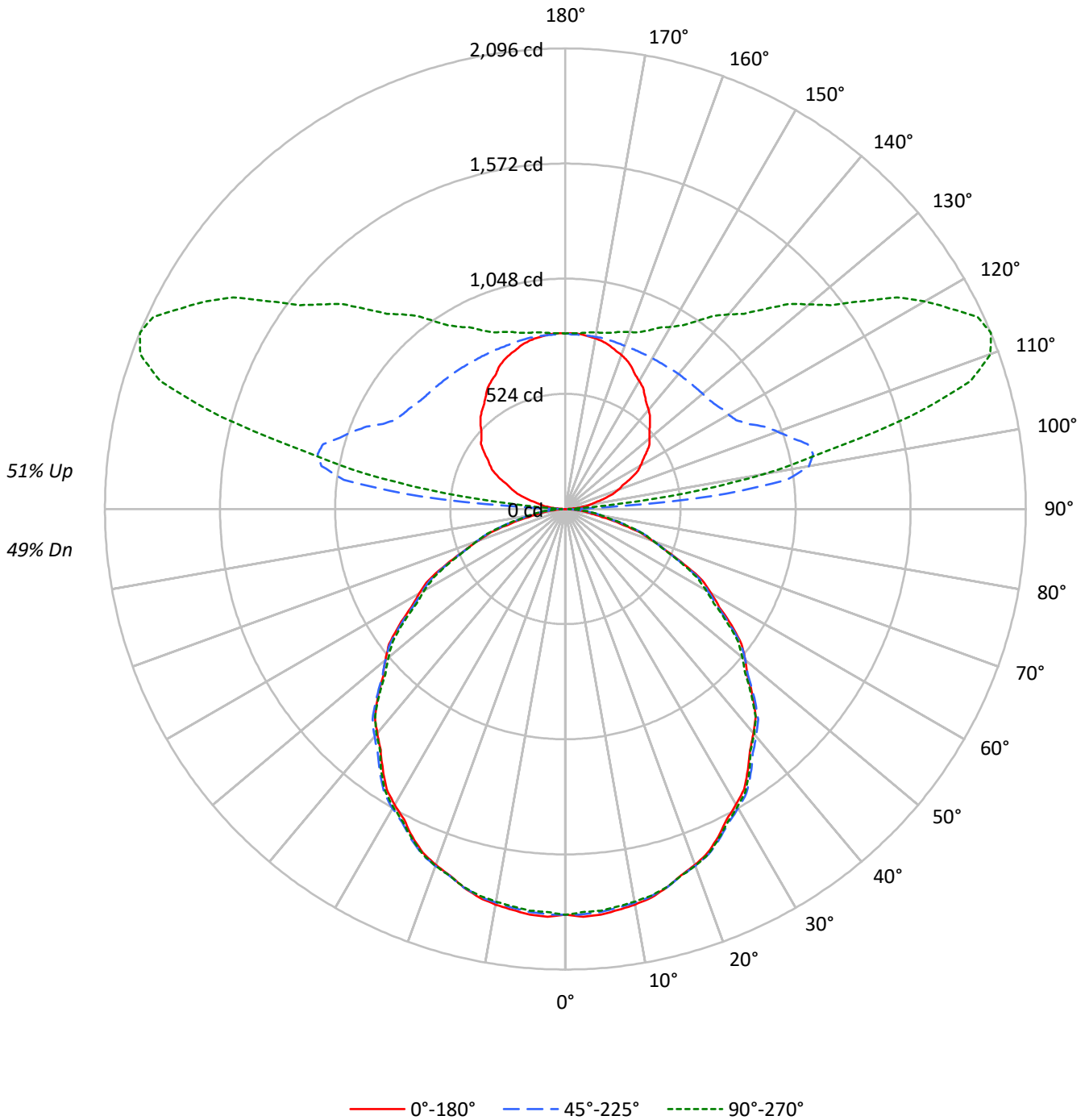
Lumens per Lamp: N/A
Luminaire Lumens: 10245.1 lumens
Efficiency: N/A
Efficacy: 112.6 lumens/watt
Spacing Criteria (0/90/45): 1.26 / 1.26 / 1.37
Luminous Opening: Rectangular (W 0.29' x L: 8' x H: 0')
CIE Type: General Diffuse

Input Watts (W): 91
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	107	107	107	107	99	99	99	99	83	83	83	69	69	69	55	55	55	49
1	98	93	90	86	90	86	83	80	73	70	68	60	59	57	49	48	47	42
2	89	82	75	70	82	75	70	66	64	60	56	53	50	48	43	41	40	35
3	81	72	64	58	74	66	60	55	56	51	47	47	43	40	38	36	34	29
4	74	63	55	49	68	59	52	46	50	45	40	42	38	35	34	31	29	25
5	68	56	48	42	62	52	45	40	45	39	35	37	33	30	31	28	25	22
6	63	51	42	37	58	47	40	34	40	34	30	34	29	26	28	25	22	19
7	58	46	38	32	53	42	35	30	36	31	27	31	26	23	25	22	20	17
8	54	41	34	28	49	39	32	27	33	28	24	28	24	21	23	20	18	15
9	50	38	30	25	46	35	28	24	30	25	21	26	21	18	21	18	16	14
10	47	35	27	23	43	32	26	21	28	23	19	24	20	17	20	17	14	12

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	8520	8520	8520
5°	8584	8529	8497
10°	8563	8523	8499
15°	8518	8518	8510
20°	8462	8487	8487
25°	8382	8443	8417
30°	8280	8381	8344
35°	8157	8282	8224
40°	8022	8136	8053
45°	7876	7932	7810
50°	7670	7670	7548
55°	7427	7331	7221
60°	7068	6926	6816
65°	6533	6403	6346
70°	5720	5766	5743
75°	4602	5090	5121
80°	3270	4317	4362
85°	1990	3620	3620



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	174.8	1.7
10°-20°	501.6	4.9
20°-30°	759.6	7.4
30°-40°	910.7	8.9
40°-50°	928.6	9.1
50°-60°	810.6	7.9
60°-70°	580.3	5.7
70°-80°	298.9	2.9
80°-90°	77.6	0.8
90°-100°	376.7	3.7
100°-110°	1036.3	10.1
110°-120°	1069.6	10.4
120°-130°	857.0	8.4
130°-140°	673.1	6.6
140°-150°	515.8	5.0
150°-160°	370.9	3.6
160°-170°	226.8	2.2
170°-180°	76.4	0.7
0°-30°	1436.0	14.0
0°-40°	2346.6	22.9
0°-60°	4085.8	39.9
0°-90°	5042.6	49.2
90°-120°	2482.6	24.2
90°-150°	4528.5	44.2
90°-180°	5203.0	50.8
0°-180°	10245.1	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1847	1847	1847	1847	1847	
5°	1854	1835	1842	1837	1835	176
15°	1784	1769	1784	1784	1782	503
25°	1647	1635	1659	1654	1654	758
35°	1448	1445	1471	1460	1460	906
45°	1207	1204	1216	1200	1197	929
55°	923	912	912	898	898	823
65°	598	585	587	581	581	592
75°	258	270	286	287	287	279
85°	38	58	68	70	68	51
90°	2	7	12	15	15	5
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°	1846.9	1846.9	1846.9	1846.9	1846.9
2.5°	1857.8	1841.8	1846.9	1842.6	1836.0
5°	1853.7	1835.3	1841.8	1836.6	1834.9
7.5°	1840.4	1822.0	1830.5	1827.0	1825.3
10°	1828.1	1809.7	1819.5	1816.1	1814.4
12.5°	1811.7	1794.6	1805.9	1802.4	1802.1
15°	1783.6	1768.6	1783.6	1783.6	1781.9
17.5°	1748.4	1734.7	1750.8	1751.8	1750.8
20°	1723.8	1708.7	1728.9	1727.2	1728.9
22.5°	1693.7	1681.3	1702.9	1698.5	1700.2
25°	1646.8	1635.1	1658.8	1653.7	1653.7
27.5°	1591.4	1583.0	1608.9	1603.4	1603.4
30°	1554.5	1546.1	1573.3	1566.4	1566.4
32.5°	1513.4	1507.7	1533.6	1525.4	1525.4
35°	1448.4	1445.1	1470.7	1460.4	1460.4
37.5°	1381.4	1378.4	1401.6	1389.2	1385.2
40°	1332.2	1330.5	1351.0	1337.3	1337.3
42.5°	1282.9	1281.2	1299.0	1282.6	1282.6
45°	1207.3	1204.0	1215.9	1200.4	1197.1
47.5°	1124.9	1121.6	1129.0	1112.2	1110.5
50°	1068.8	1065.5	1068.8	1053.4	1051.7
52.5°	1011.3	1005.3	1005.9	990.5	990.1
55°	923.4	911.7	911.5	897.8	897.8
57.5°	830.4	815.0	816.4	804.7	803.1
60°	766.1	749.4	750.7	740.4	738.8
62.5°	703.2	683.8	687.8	676.2	675.8
65°	598.5	585.2	586.6	581.4	581.4
67.5°	498.0	485.6	494.6	490.4	490.1
70°	424.1	415.7	427.5	427.5	425.8
72.5°	355.7	355.4	370.1	370.1	371.1
75°	258.2	269.9	285.6	287.3	287.3
77.5°	172.4	193.1	210.3	211.0	210.7
80°	123.1	146.5	162.5	165.8	164.2
82.5°	83.5	108.2	121.4	124.8	123.1
85°	37.6	57.7	68.4	70.1	68.4
87.5°	11.3	24.3	29.7	30.4	27.7
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)