

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: P563254

Luminaire Tested: **SQ4-PP3-025U-125D-835-1D-UNV-STD-W-4**

Issue Date: 7/30/2021

Test Information

Test Method: LM-79-2019
Report Number: P563254
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1910-536-32, 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-PP3-025U-125D-835-1D-UNV-STD-W-4
Description: CORELITE SQ4 SUSPENDED LED LUMINAIRE WITH PERCEIVE PRISM CONTINUOUS LENS.
DOWNLIGHT 1250 LUMENS PER FOOT
UPLIGHT 250 LUMENS PER FOOT
Light Source: 3500K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

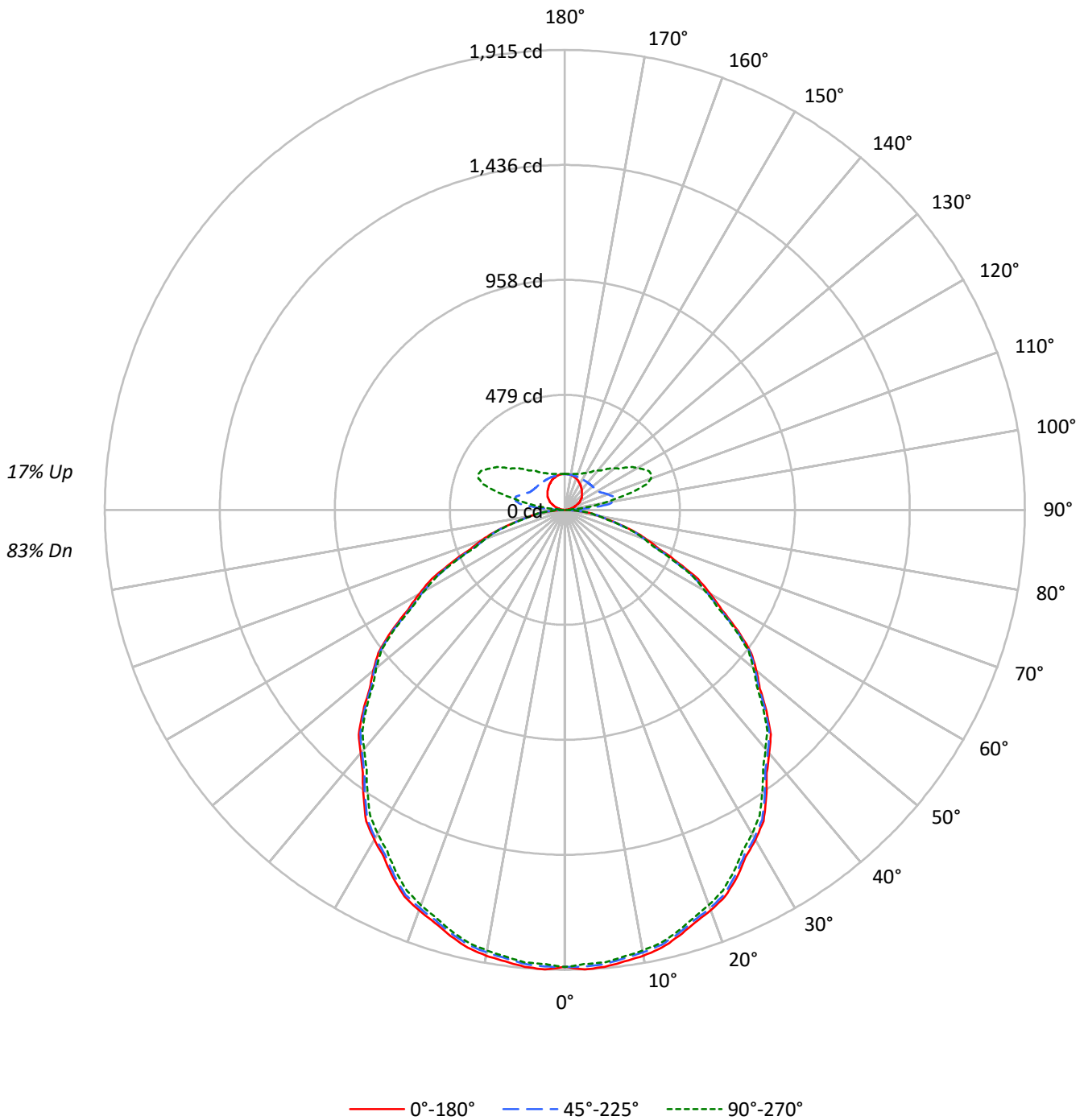
Lumens per Lamp: N/A
Luminaire Lumens: 5838.3 lumens
Efficiency: N/A
Efficacy: 117.9 lumens/watt
Spacing Criteria (0/90/45): 1.24 / 1.22 / 1.33
Luminous Opening: Rectangular (W 0.29' x L: 4' x H: 0')
CIE Type: Semi-Direct

Input Watts (W): 49.5
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	115	115	115	115	111	111	111	111	102	102	102	94	94	94	87	87	87	83
1	106	101	97	94	101	97	94	91	90	87	85	84	81	79	77	76	74	71
2	96	89	82	77	92	86	80	75	79	75	71	74	70	67	68	66	63	60
3	88	78	71	65	84	76	69	63	70	65	60	65	61	57	61	57	54	51
4	81	70	61	55	77	67	60	54	63	56	51	58	53	49	55	50	47	44
5	74	62	54	48	71	60	52	47	56	50	45	53	47	43	49	45	41	38
6	69	56	48	42	66	54	46	41	51	44	39	48	42	37	45	40	36	34
7	64	51	43	37	61	49	42	36	46	40	35	44	38	33	41	36	32	30
8	59	46	38	33	57	45	37	32	42	36	31	40	34	30	38	33	29	27
9	55	43	35	29	53	41	34	29	39	32	28	37	31	27	35	30	26	24
10	52	39	32	27	50	38	31	26	36	30	25	34	28	24	32	27	24	22

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	17561	17561	17561
5°	17690	17582	17520
10°	17660	17535	17457
15°	17544	17448	17353
20°	17427	17328	17198
25°	17219	17101	16931
30°	16901	16812	16599
35°	16459	16346	16140
40°	15933	15832	15651
45°	15497	15389	15236
50°	14940	14846	14702
55°	14168	13980	13874
60°	12898	12529	12466
65°	11363	10889	10852
70°	9811	9406	9406
75°	8445	8324	8206
80°	7444	7534	7359
85°	5833	6362	6362



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	180.0	3.1
10°-20°	513.9	8.8
20°-30°	769.8	13.2
30°-40°	902.9	15.5
40°-50°	905.7	15.5
50°-60°	772.7	13.2
60°-70°	503.9	8.6
70°-80°	252.8	4.3
80°-90°	70.8	1.2
90°-100°	72.6	1.2
100°-110°	190.9	3.3
110°-120°	198.0	3.4
120°-130°	158.8	2.7
130°-140°	124.6	2.1
140°-150°	95.6	1.6
150°-160°	68.9	1.2
160°-170°	42.1	0.7
170°-180°	14.2	0.2
0°-30°	1463.7	25.1
0°-40°	2366.6	40.5
0°-60°	4045.0	69.3
0°-90°	4872.4	83.5
90°-120°	461.6	7.9
90°-150°	840.6	14.4
90°-180°	966.0	16.5
0°-180°	5838.3	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1903	1903	1903	1903	1903	
5°	1910	1892	1898	1892	1892	181
15°	1837	1819	1827	1820	1817	518
25°	1692	1672	1680	1665	1663	778
35°	1461	1447	1451	1435	1433	913
45°	1188	1180	1179	1168	1168	915
55°	881	878	869	864	862	783
65°	520	511	499	496	497	519
75°	237	237	234	232	230	257
85°	55	60	60	60	60	65
90°	1	3	8	4	4	3
95°	10	38	125	64	44	11
105°	34	52	211	320	299	36
115°	61	74	169	337	385	60
125°	85	95	154	260	307	75
135°	101	112	149	210	238	78
145°	118	125	147	179	193	74
155°	133	136	147	162	166	61
165°	143	145	147	153	155	40
175°	149	149	148	150	150	14
180°	149	149	149	149	149	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1903.4	1903.4	1903.4	1903.4	1903.4
2.5°	1915.4	1899.7	1903.4	1900.5	1892.7
5°	1910.1	1892.1	1898.4	1891.7	1891.7
7.5°	1897.1	1877.5	1883.7	1877.0	1876.7
10°	1885.0	1865.5	1871.7	1865.0	1863.4
12.5°	1867.7	1848.1	1855.7	1847.7	1847.3
15°	1836.7	1818.7	1826.7	1819.9	1816.7
17.5°	1801.6	1782.1	1791.6	1782.3	1781.0
20°	1774.9	1755.4	1764.9	1751.6	1751.6
22.5°	1742.9	1723.3	1734.2	1716.9	1716.9
25°	1691.5	1672.0	1679.9	1664.8	1663.2
27.5°	1630.5	1611.2	1619.5	1602.4	1602.1
30°	1586.4	1568.5	1578.1	1559.7	1558.1
32.5°	1538.4	1521.8	1528.7	1510.3	1508.7
35°	1461.3	1446.6	1451.3	1434.6	1433.0
37.5°	1380.3	1365.2	1370.6	1356.2	1355.6
40°	1322.9	1313.1	1314.5	1302.8	1299.5
42.5°	1269.5	1258.4	1259.8	1248.1	1247.5
45°	1187.7	1179.6	1179.4	1167.7	1167.7
47.5°	1101.0	1094.8	1093.0	1083.3	1083.0
50°	1040.9	1036.1	1034.3	1025.9	1024.3
52.5°	978.2	975.9	970.2	963.2	962.9
55°	880.8	877.5	869.1	864.1	862.5
57.5°	775.0	768.5	759.0	751.7	753.0
60°	699.0	692.4	679.0	675.6	675.6
62.5°	625.6	617.7	604.2	599.6	602.2
65°	520.5	510.7	498.8	495.5	497.1
67.5°	425.1	416.2	403.4	403.3	402.0
70°	363.7	358.8	348.7	348.7	348.7
72.5°	308.9	306.7	299.3	299.2	297.9
75°	236.9	236.9	233.5	231.8	230.2
77.5°	177.5	178.1	176.5	174.8	171.8
80°	140.1	143.4	141.8	140.1	138.5
82.5°	105.4	108.7	108.4	105.4	105.1
85°	55.1	59.9	60.1	60.1	60.1
87.5°	14.9	20.5	22.9	22.1	23.5
90°	1.0	2.8	7.6	3.8	3.8
92.5°	4.0	19.3	42.8	19.0	12.2
95°	9.6	37.6	125.1	64.5	43.9
97.5°	16.6	41.3	187.2	148.9	109.7
100°	22.0	44.4	206.3	209.1	162.4
102.5°	26.6	47.5	211.7	260.5	220.5
105°	34.4	52.1	211.1	320.5	299.0
107.5°	42.4	58.9	199.1	351.7	356.9
110°	47.8	62.7	189.1	359.7	382.1

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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	53.1	67.3	180.0	354.6	389.0
115°	61.1	74.2	169.1	337.3	385.0
117.5°	69.0	80.9	161.6	313.4	366.3
120°	73.6	84.8	158.6	297.3	348.7
122.5°	78.1	89.4	156.3	281.2	331.9
125°	85.0	95.3	153.8	259.9	306.6
127.5°	90.6	101.0	151.7	242.8	282.2
130°	93.6	104.8	150.9	232.0	268.4
132.5°	96.7	107.9	150.2	222.8	255.4
135°	101.3	111.5	149.0	209.8	237.9
137.5°	106.0	116.1	148.8	200.2	223.2
140°	109.9	119.2	148.1	192.5	214.0
142.5°	112.9	121.5	148.1	187.1	205.6
145°	117.5	125.0	147.1	179.0	193.0
147.5°	122.1	129.4	147.1	172.2	183.8
150°	125.1	131.7	147.1	168.3	177.7
152.5°	128.2	133.2	147.1	165.2	172.3
155°	132.8	136.5	147.1	161.5	166.2
157.5°	136.2	139.8	147.1	158.3	161.6
160°	138.5	141.3	147.1	156.7	158.6
162.5°	140.8	142.9	147.1	155.2	157.0
165°	143.3	145.2	147.1	152.9	154.8
167.5°	145.6	146.5	148.1	151.9	152.7
170°	147.1	148.0	148.1	151.9	151.9
172.5°	147.9	148.1	148.1	151.1	150.4
175°	149.0	149.0	148.1	150.0	150.0
177.5°	149.0	149.0	148.3	149.8	149.0
180°	149.0	149.0	149.0	149.0	149.0

(END OF REPORT)