

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: P564598

Luminaire Tested: **SQ4-PW1-025U-125D-835-1D-UNV-STD-W-4**

Issue Date: 7/30/2021

Test Information

Test Method: LM-79-2019
Report Number: P564598
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1910-536-32, G2-2106-289-3)
Test Lab: INNOVATION CENTER
Issue Date: 7/30/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: CORELITE
Catalog Number: SQ4-PW1-025U-125D-835-1D-UNV-STD-W-4
Description: CORELITE SQ4 SUSPENDED LED LUMINAIRE WITH PERCEIVE WAVES CONTINUOUS LENS.
DOWNLIGHT 1250 LUMENS PER FOOT
UPLIGHT 250 LUMENS PER FOOT
Light Source: 3500K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

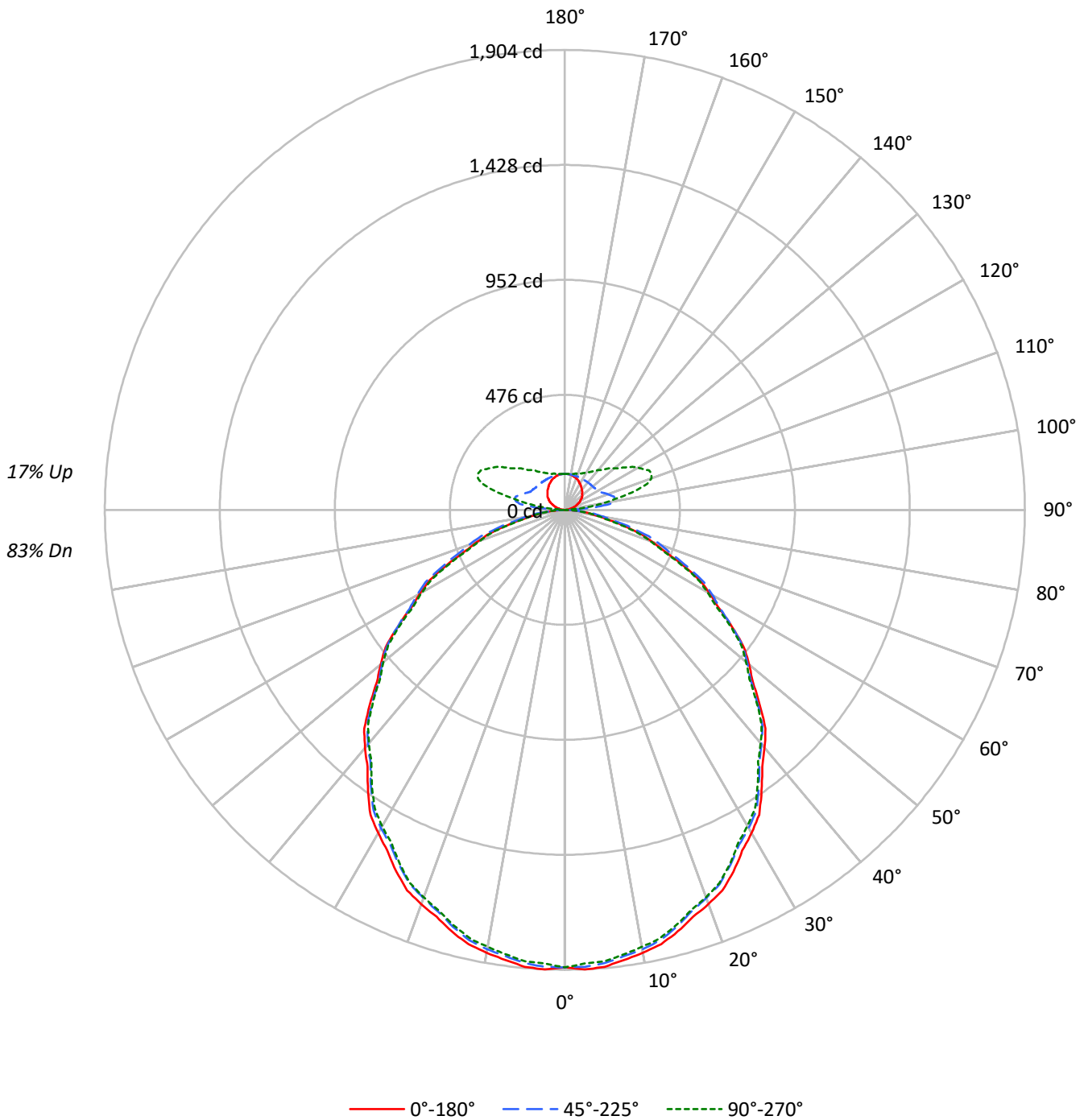
Lumens per Lamp: N/A
Luminaire Lumens: 5785.1 lumens
Efficiency: N/A
Efficacy: 116.9 lumens/watt
Spacing Criteria (0/90/45): 1.22 / 1.19 / 1.31
Luminous Opening: Rectangular (W 0.29' x L: 4' x H: 0')
CIE Type: Semi-Direct

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	110	110	110	110	102	102	102	94	94	94	87	87	87	83
1	105	101	97	93	101	97	93	90	90	87	84	83	81	79	77	75	74	71
2	96	88	82	77	92	85	79	74	79	74	70	73	69	66	68	65	62	59
3	88	78	70	64	84	75	68	62	70	64	59	65	60	56	60	56	53	50
4	81	69	61	54	77	67	59	53	62	56	51	58	53	48	54	50	46	43
5	74	62	53	47	71	60	52	46	56	49	44	52	46	42	49	44	40	38
6	68	56	47	41	65	54	46	40	50	44	39	47	41	37	44	39	35	33
7	63	51	42	36	61	49	41	36	46	39	34	43	37	33	40	35	31	29
8	59	46	38	32	57	45	37	32	42	35	31	40	34	29	37	32	28	26
9	55	42	34	29	53	41	34	29	39	32	28	36	31	27	34	29	26	24
10	52	39	31	26	50	38	31	26	36	29	25	34	28	24	32	27	23	21

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	17473	17473	17473
5°	17586	17447	17370
10°	17445	17305	17211
15°	17261	17069	17006
20°	17054	16792	16760
25°	16816	16511	16460
30°	16461	16211	16105
35°	15994	15767	15674
40°	15495	15254	15192
45°	14891	14696	14631
50°	14274	14154	14059
55°	13608	13608	13393
60°	12778	13024	12562
65°	11693	12276	11402
70°	10307	11297	10038
75°	8801	10113	8566
80°	6827	8512	6912
85°	4414	6531	5833



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	178.3	3.1
10°-20°	503.5	8.7
20°-30°	746.8	12.9
30°-40°	873.9	15.1
40°-50°	870.0	15.0
50°-60°	751.3	13.0
60°-70°	540.8	9.3
70°-80°	283.6	4.9
80°-90°	71.1	1.2
90°-100°	72.6	1.3
100°-110°	190.9	3.3
110°-120°	198.0	3.4
120°-130°	158.8	2.7
130°-140°	124.6	2.2
140°-150°	95.6	1.7
150°-160°	68.9	1.2
160°-170°	42.1	0.7
170°-180°	14.2	0.2
0°-30°	1428.7	24.7
0°-40°	2302.5	39.8
0°-60°	3923.8	67.8
0°-90°	4819.2	83.3
90°-120°	461.6	8.0
90°-150°	840.6	14.5
90°-180°	966.0	16.7
0°-180°	5785.1	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1894	1894	1894	1894	1894	
5°	1899	1878	1884	1879	1876	180
15°	1807	1784	1787	1784	1780	509
25°	1652	1624	1622	1612	1617	760
35°	1420	1400	1400	1387	1392	888
45°	1141	1132	1126	1123	1121	881
55°	846	844	846	834	833	755
65°	536	552	562	540	522	531
75°	247	270	284	265	240	265
85°	42	55	62	58	55	55
90°	1	3	8	4	4	2
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°	1893.8	1893.8	1893.8	1893.8	1893.8
2.5°	1904.5	1888.9	1893.8	1889.6	1880.5
5°	1898.8	1877.6	1883.8	1878.7	1875.5
7.5°	1879.5	1859.9	1864.5	1859.1	1857.1
10°	1862.1	1842.6	1847.1	1840.4	1837.1
12.5°	1842.1	1821.2	1825.8	1819.0	1817.1
15°	1807.1	1784.2	1787.0	1783.6	1780.4
17.5°	1766.4	1743.2	1743.7	1738.3	1737.7
20°	1737.0	1712.5	1710.3	1703.7	1707.0
22.5°	1705.0	1679.2	1676.9	1667.7	1672.3
25°	1651.9	1624.2	1621.9	1612.0	1616.9
27.5°	1590.5	1563.1	1563.1	1549.2	1554.4
30°	1545.1	1519.0	1521.7	1505.2	1511.7
32.5°	1497.0	1473.6	1475.0	1458.5	1465.0
35°	1420.0	1400.4	1399.9	1386.7	1391.6
37.5°	1341.2	1323.9	1321.2	1313.5	1314.8
40°	1286.5	1271.8	1266.5	1261.4	1261.4
42.5°	1229.1	1215.7	1210.4	1206.7	1205.4
45°	1141.3	1131.5	1126.3	1122.9	1121.3
47.5°	1054.5	1045.4	1040.9	1038.5	1036.9
50°	994.5	987.9	986.1	981.1	979.5
52.5°	934.4	930.5	928.7	922.4	920.7
55°	846.0	844.3	846.0	834.3	832.6
57.5°	753.9	756.5	761.9	746.1	742.2
60°	692.5	699.0	705.8	687.3	680.8
62.5°	629.7	640.2	649.7	628.5	619.4
65°	535.6	551.9	562.3	540.2	522.3
67.5°	444.8	465.1	477.5	453.7	433.5
70°	382.1	404.9	418.8	394.9	372.1
72.5°	327.4	352.8	364.1	341.5	318.7
75°	246.9	269.8	283.7	264.7	240.3
77.5°	175.2	196.7	208.2	191.8	171.5
80°	128.5	151.3	160.2	146.5	130.1
82.5°	91.1	110.0	116.1	107.9	96.8
85°	41.7	54.8	61.7	58.3	55.1
87.5°	10.9	20.4	26.9	26.2	27.5
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)