

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: P564564

Luminaire Tested: **SQ4-PW1-025U-075D-935-1D-UNV-STD-W-8**

Issue Date: 7/30/2021

Test Information

Test Method: LM-79-2019
Report Number: P564564
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-075D-935-1D-UNV-STD-W-8
Description: CORELITE SQ4 SUSPENDED LED LUMINAIRE WITH PERCEIVE WAVES CONTINUOUS LENS.
DOWNLIGHT 750 LUMENS PER FOOT
UPLIGHT 250 LUMENS PER FOOT
Light Source: 3500K CCT, 90 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

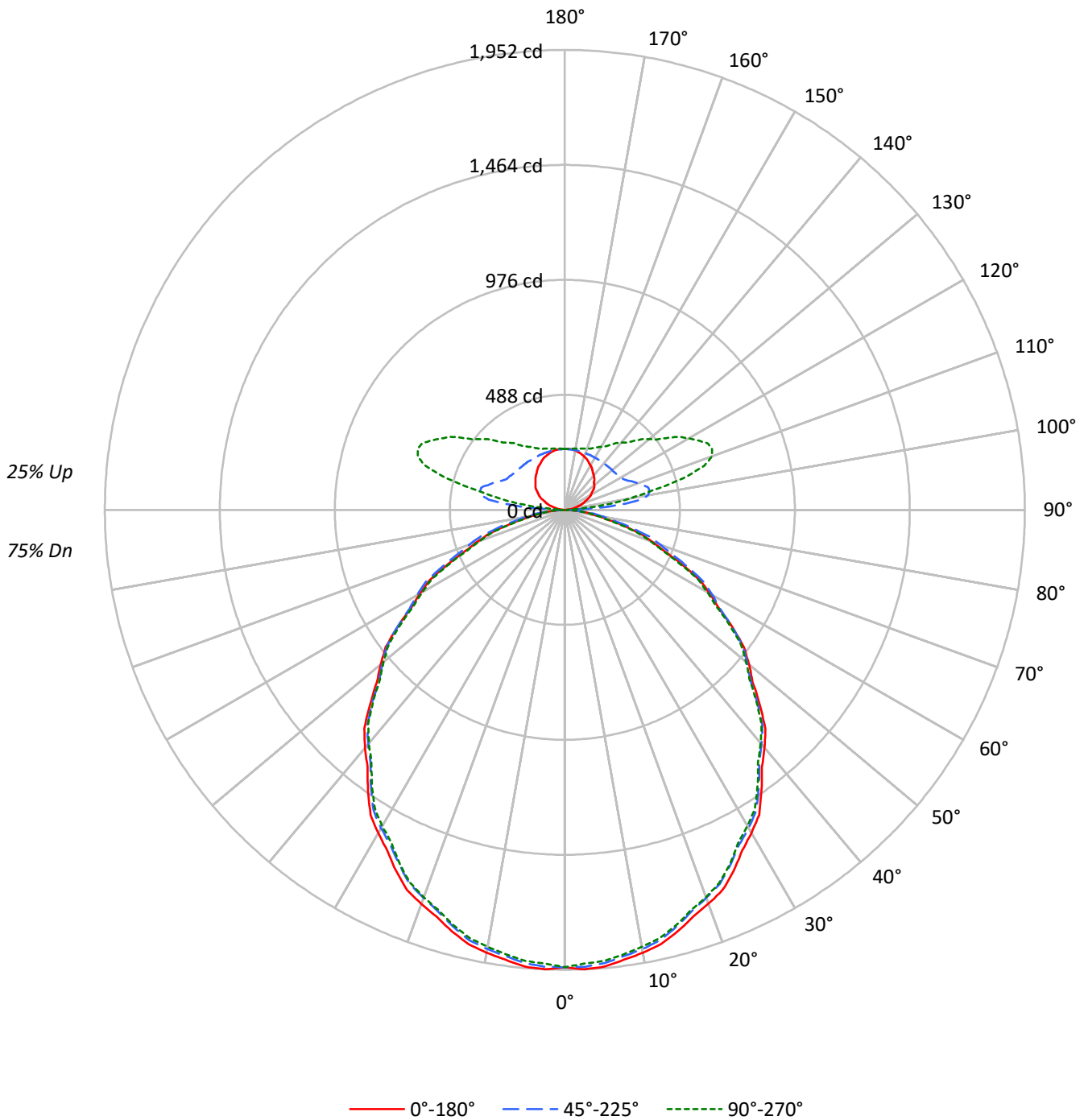
Lumens per Lamp: N/A
Luminaire Lumens: 6618.3 lumens
Efficiency: N/A
Efficacy: 102.0 lumens/watt
Spacing Criteria (0/90/45): 1.22 / 1.19 / 1.31
Luminous Opening: Rectangular (W 0.29' x L: 8' x H: 0')
CIE Type: Semi-Direct

Input Watts (W): 64.9
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	50	30	10	0	
RCR																						
0	113	113	113	113	107	107	107	107	97	97	97	87	87	87	79	79	79	75				
1	103	99	95	91	98	94	91	88	86	83	80	77	75	73	70	68	67	63				
2	94	87	80	75	89	83	77	72	75	71	67	68	65	62	62	59	57	53				
3	86	76	69	63	82	73	66	60	66	61	56	60	56	52	55	51	48	45				
4	79	68	59	53	75	65	57	51	59	53	48	54	49	45	49	45	42	39				
5	73	61	52	46	69	58	50	44	53	47	42	48	43	39	44	40	36	34				
6	67	54	46	40	64	52	44	39	48	41	37	44	38	34	40	36	32	30				
7	62	49	41	35	59	47	40	34	44	37	32	40	35	30	37	32	29	26				
8	58	45	37	31	55	43	36	31	40	33	29	37	31	27	34	29	26	23				
9	54	41	33	28	51	40	32	27	37	30	26	34	28	25	31	27	23	21				
10	50	38	30	25	48	37	30	25	34	28	24	31	26	22	29	24	21	19				

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	8954	8954	8954
5°	9012	8941	8901
10°	8940	8868	8820
15°	8845	8747	8714
20°	8739	8605	8588
25°	8617	8461	8435
30°	8435	8308	8253
35°	8196	8080	8032
40°	7940	7817	7785
45°	7631	7531	7497
50°	7315	7254	7204
55°	6973	6973	6863
60°	6548	6674	6437
65°	5992	6291	5843
70°	5282	5789	5144
75°	4511	5181	4390
80°	3499	4362	3544
85°	2265	3350	2985



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	182.8	2.8
10°-20°	516.0	7.8
20°-30°	765.4	11.6
30°-40°	895.6	13.5
40°-50°	891.6	13.5
50°-60°	769.9	11.6
60°-70°	554.2	8.4
70°-80°	290.6	4.4
80°-90°	73.5	1.1
90°-100°	126.2	1.9
100°-110°	331.8	5.0
110°-120°	344.1	5.2
120°-130°	276.0	4.2
130°-140°	216.6	3.3
140°-150°	166.2	2.5
150°-160°	119.7	1.8
160°-170°	73.2	1.1
170°-180°	24.7	0.4
0°-30°	1464.2	22.1
0°-40°	2359.8	35.7
0°-60°	4021.4	60.8
0°-90°	4939.7	74.6
90°-120°	802.1	12.1
90°-150°	1460.9	22.1
90°-180°	1679.0	25.4
0°-180°	6618.3	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1941	1941	1941	1941	1941	
5°	1946	1924	1931	1926	1922	184
15°	1852	1829	1832	1828	1825	522
25°	1693	1665	1662	1652	1657	778
35°	1455	1435	1435	1421	1426	910
45°	1170	1160	1154	1151	1149	903
55°	867	865	867	855	853	774
65°	549	566	576	554	535	544
75°	253	276	291	271	246	271
85°	43	56	63	60	56	56
90°	2	5	13	7	7	3
95°	17	65	218	112	76	19
105°	60	91	367	557	520	63
115°	106	129	294	586	669	105
125°	148	166	267	452	533	131
135°	176	194	259	365	413	136
145°	204	217	256	311	335	128
155°	231	237	256	281	289	106
165°	249	252	256	266	269	70
175°	259	259	257	261	261	25
180°	259	259	259	259	259	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1941.0	1941.0	1941.0	1941.0	1941.0
2.5°	1951.9	1935.8	1941.0	1936.6	1927.3
5°	1946.1	1924.3	1930.7	1925.5	1922.1
7.5°	1926.2	1906.2	1910.9	1905.3	1903.3
10°	1908.5	1888.4	1893.1	1886.2	1882.8
12.5°	1887.9	1866.5	1871.2	1864.3	1862.3
15°	1852.0	1828.6	1831.5	1828.0	1824.7
17.5°	1810.3	1786.6	1787.0	1781.6	1780.9
20°	1780.2	1755.1	1752.8	1746.1	1749.4
22.5°	1747.4	1721.0	1718.6	1709.2	1713.9
25°	1693.0	1664.6	1662.2	1652.1	1657.1
27.5°	1630.1	1602.0	1602.0	1587.8	1593.1
30°	1583.5	1556.8	1559.6	1542.7	1549.3
32.5°	1534.3	1510.2	1511.7	1494.8	1501.5
35°	1455.3	1435.2	1434.8	1421.2	1426.2
37.5°	1374.6	1356.8	1354.0	1346.2	1347.6
40°	1318.5	1303.4	1298.0	1292.8	1292.8
42.5°	1259.7	1245.9	1240.5	1236.7	1235.4
45°	1169.7	1159.7	1154.3	1150.9	1149.2
47.5°	1080.8	1071.4	1066.8	1064.3	1062.7
50°	1019.2	1012.5	1010.7	1005.5	1003.8
52.5°	957.7	953.6	951.8	945.3	943.6
55°	867.0	865.3	867.0	855.0	853.3
57.5°	772.6	775.3	780.8	764.7	760.6
60°	709.7	716.4	723.4	704.4	697.7
62.5°	645.4	656.1	665.9	644.1	634.8
65°	548.9	565.7	576.3	553.7	535.3
67.5°	455.9	476.6	489.4	465.0	444.3
70°	391.6	415.0	429.2	404.8	381.4
72.5°	335.5	361.6	373.1	350.0	326.6
75°	253.1	276.5	290.7	271.3	246.3
77.5°	179.6	201.6	213.4	196.5	175.8
80°	131.7	155.1	164.2	150.1	133.4
82.5°	93.4	112.8	119.0	110.6	99.2
85°	42.8	56.1	63.3	59.8	56.4
87.5°	11.3	21.3	28.6	27.4	28.7
90°	1.7	4.9	13.3	6.6	6.6
92.5°	7.0	33.6	74.4	32.9	21.2
95°	16.6	65.3	217.5	112.1	76.4
97.5°	28.9	71.7	325.4	258.8	190.6
100°	38.2	77.1	358.6	363.4	282.2
102.5°	46.2	82.5	367.9	452.6	383.1
105°	59.8	90.6	366.9	556.9	519.6
107.5°	73.7	102.3	346.0	611.1	620.2
110°	83.0	109.0	328.7	625.1	664.0

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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	92.3	117.0	312.8	616.3	676.0
115°	106.2	129.0	293.8	586.2	669.0
117.5°	119.9	140.6	280.9	544.6	636.5
120°	127.8	147.3	275.6	516.7	605.9
122.5°	135.8	155.3	271.6	488.7	576.7
125°	147.7	165.6	267.3	451.7	532.9
127.5°	157.4	175.6	263.6	421.9	490.4
130°	162.7	182.2	262.3	403.2	466.5
132.5°	168.0	187.5	261.0	387.1	443.9
135°	176.0	193.8	259.0	364.7	413.4
137.5°	184.3	201.8	258.6	347.9	387.8
140°	190.9	207.1	257.3	334.5	371.9
142.5°	196.2	211.2	257.3	325.1	357.3
145°	204.2	217.2	255.7	311.0	335.3
147.5°	212.2	224.8	255.7	299.3	319.4
150°	217.5	228.8	255.7	292.5	308.8
152.5°	222.8	231.5	255.7	287.1	299.5
155°	230.8	237.2	255.7	280.7	288.9
157.5°	236.7	242.9	255.7	275.0	280.9
160°	240.7	245.6	255.7	272.3	275.6
162.5°	244.7	248.3	255.7	269.7	272.9
165°	249.0	252.3	255.7	265.7	268.9
167.5°	253.0	254.6	257.3	264.0	265.3
170°	255.7	257.3	257.3	264.0	264.0
172.5°	257.0	257.3	257.3	262.6	261.3
175°	259.0	259.0	257.3	260.6	260.6
177.5°	259.0	259.0	257.6	260.3	259.0
180°	259.0	259.0	259.0	259.0	259.0

(END OF REPORT)