

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: P564552

Luminaire Tested: **SQ4-PW1-025U-075D-835-1D-UNV-STD-W-8**

Issue Date: 7/30/2021

Test Information

Test Method: LM-79-2019
Report Number: P564552
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-835-1D-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, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

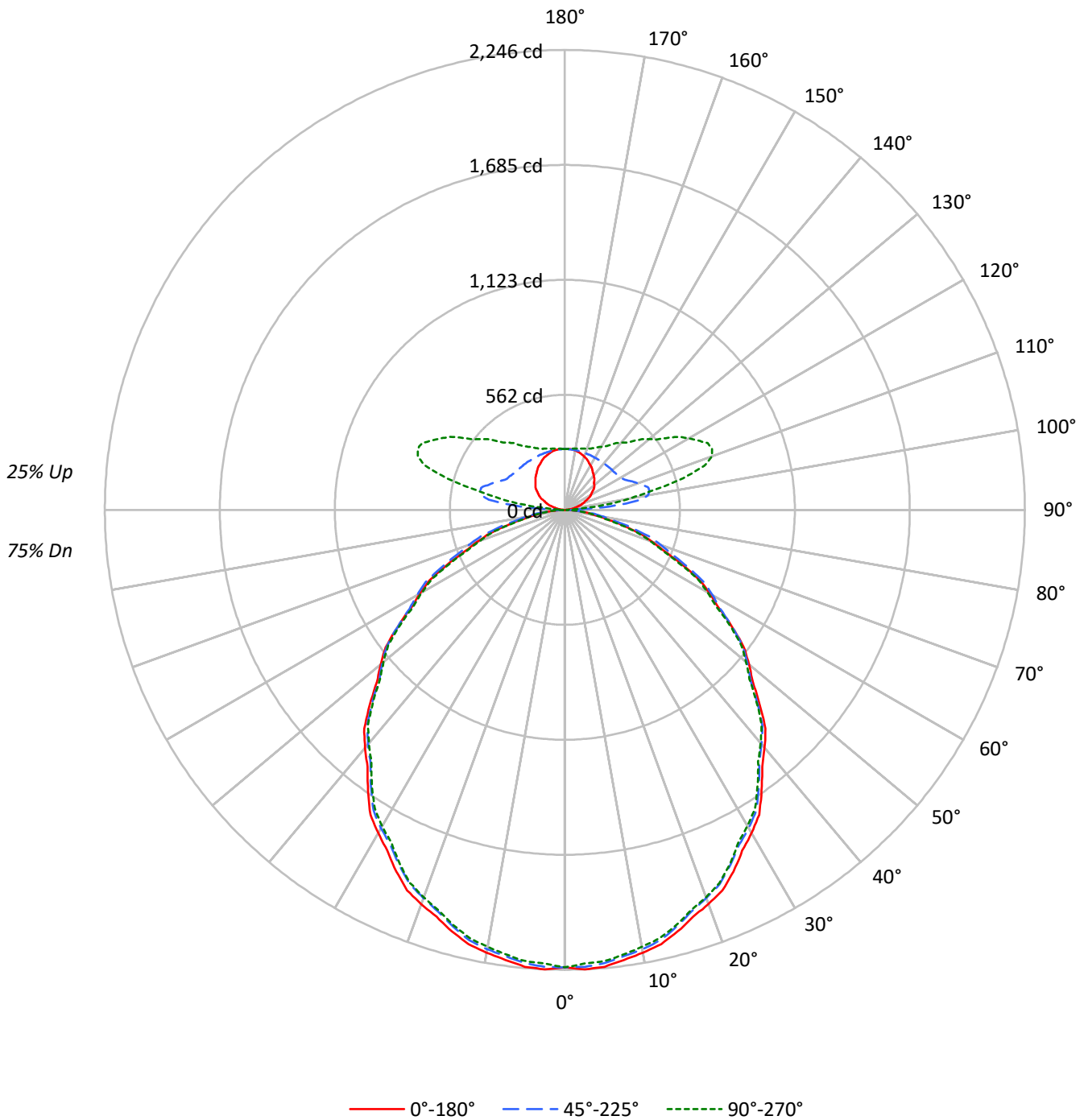
Lumens per Lamp: N/A
Luminaire Lumens: 7616.8 lumens
Efficiency: N/A
Efficacy: 117.4 lumens/watt
Spacing Criteria (0/90/45): 1.22 / 1.19 / 1.31
Luminous Opening: Rectangular (W 0.29' x L: 8' x H: 0')
CIE Type: Semi-Direct

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				
RC	80					70					50					30				
RW	70	50	30	10	70	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°	10305	10305	10305
5°	10371	10289	10244
10°	10289	10206	10150
15°	10180	10067	10029
20°	10058	9903	9884
25°	9917	9737	9707
30°	9708	9561	9498
35°	9432	9299	9244
40°	9138	8996	8960
45°	8782	8667	8629
50°	8418	8348	8291
55°	8025	8025	7899
60°	7536	7681	7409
65°	6896	7240	6724
70°	6079	6663	5920
75°	5192	5964	5051
80°	4025	5018	4078
85°	2604	3853	3435



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	210.3	2.8
10°-20°	593.9	7.8
20°-30°	880.9	11.6
30°-40°	1030.8	13.5
40°-50°	1026.2	13.5
50°-60°	886.1	11.6
60°-70°	637.9	8.4
70°-80°	334.5	4.4
80°-90°	84.5	1.1
90°-100°	145.3	1.9
100°-110°	381.9	5.0
110°-120°	396.0	5.2
120°-130°	317.6	4.2
130°-140°	249.2	3.3
140°-150°	191.3	2.5
150°-160°	137.8	1.8
160°-170°	84.3	1.1
170°-180°	28.5	0.4
0°-30°	1685.1	22.1
0°-40°	2715.9	35.7
0°-60°	4628.2	60.8
0°-90°	5685.0	74.6
90°-120°	923.2	12.1
90°-150°	1681.3	22.1
90°-180°	1932.0	25.4
0°-180°	7616.8	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2234	2234	2234	2234	2234	
5°	2240	2215	2222	2216	2212	212
15°	2132	2104	2108	2104	2100	601
25°	1948	1916	1913	1901	1907	896
35°	1675	1652	1651	1636	1641	1047
45°	1346	1335	1328	1324	1323	1039
55°	998	996	998	984	982	890
65°	632	651	663	637	616	626
75°	291	318	335	312	283	312
85°	49	65	73	69	65	65
90°	2	6	15	8	8	3
95°	19	75	250	129	88	21
105°	69	104	422	641	598	73
115°	122	148	338	675	770	121
125°	170	191	308	520	613	151
135°	202	223	298	420	476	157
145°	235	250	294	358	386	147
155°	266	273	294	323	332	122
165°	287	290	294	306	310	81
175°	298	298	296	300	300	28
180°	298	298	298	298	298	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2233.8	2233.8	2233.8	2233.8	2233.8
2.5°	2246.4	2227.9	2233.8	2228.9	2218.1
5°	2239.7	2214.7	2222.0	2216.0	2212.2
7.5°	2216.9	2193.8	2199.2	2192.8	2190.5
10°	2196.4	2173.3	2178.7	2170.8	2166.9
12.5°	2172.8	2148.2	2153.5	2145.6	2143.3
15°	2131.5	2104.5	2107.9	2103.8	2100.0
17.5°	2083.5	2056.1	2056.7	2050.4	2049.6
20°	2048.8	2020.0	2017.3	2009.5	2013.4
22.5°	2011.0	1980.6	1978.0	1967.1	1972.5
25°	1948.4	1915.7	1913.0	1901.3	1907.1
27.5°	1876.0	1843.7	1843.7	1827.3	1833.5
30°	1822.5	1791.7	1794.9	1775.4	1783.1
32.5°	1765.8	1738.1	1739.8	1720.3	1728.0
35°	1674.9	1651.8	1651.3	1635.6	1641.4
37.5°	1582.0	1561.6	1558.4	1549.3	1550.9
40°	1517.4	1500.1	1493.8	1487.9	1487.9
42.5°	1449.7	1433.9	1427.7	1423.3	1421.8
45°	1346.2	1334.7	1328.5	1324.5	1322.6
47.5°	1243.9	1233.1	1227.7	1224.9	1223.0
50°	1173.0	1165.3	1163.2	1157.2	1155.3
52.5°	1102.2	1097.5	1095.5	1087.9	1086.0
55°	997.8	995.9	997.8	984.0	982.1
57.5°	889.2	892.3	898.6	880.0	875.4
60°	816.8	824.5	832.5	810.7	803.0
62.5°	742.8	755.1	766.4	741.3	730.6
65°	631.8	651.0	663.3	637.2	616.0
67.5°	524.7	548.6	563.3	535.2	511.3
70°	450.7	477.6	494.0	465.8	438.9
72.5°	386.1	416.2	429.4	402.9	375.9
75°	291.3	318.2	334.6	312.3	283.4
77.5°	206.7	232.1	245.6	226.2	202.3
80°	151.5	178.5	188.9	172.8	153.5
82.5°	107.5	129.8	137.0	127.2	114.2
85°	49.2	64.6	72.8	68.8	64.9
87.5°	13.0	24.5	33.0	31.5	33.0
90°	1.9	5.6	15.3	7.6	7.6
92.5°	8.0	38.7	85.6	37.9	24.5
95°	19.1	75.1	250.3	129.0	87.9
97.5°	33.2	82.6	374.5	297.8	219.3
100°	43.9	88.8	412.7	418.2	324.8
102.5°	53.1	95.0	423.4	520.9	441.0
105°	68.8	104.3	422.2	641.0	598.0
107.5°	84.8	117.7	398.2	703.3	713.8
110°	95.5	125.4	378.3	719.4	764.2



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	106.2	134.6	360.0	709.2	778.0
115°	122.3	148.4	338.2	674.7	770.0
117.5°	137.9	161.9	323.3	626.8	732.5
120°	147.1	169.5	317.2	594.6	697.4
122.5°	156.3	178.7	312.6	562.5	663.7
125°	170.0	190.6	307.6	519.9	613.3
127.5°	181.1	202.0	303.4	485.5	564.4
130°	187.2	209.7	301.9	464.0	536.9
132.5°	193.4	215.8	300.3	445.5	510.9
135°	202.5	223.1	298.0	419.7	475.7
137.5°	212.1	232.2	297.7	400.4	446.3
140°	219.7	238.4	296.1	385.0	428.0
142.5°	225.8	243.0	296.1	374.2	411.2
145°	235.0	249.9	294.2	357.9	385.9
147.5°	244.2	258.7	294.2	344.4	367.6
150°	250.3	263.4	294.2	336.7	355.4
152.5°	256.4	266.5	294.2	330.5	344.7
155°	265.6	273.0	294.2	323.1	332.4
157.5°	272.4	279.5	294.2	316.5	323.3
160°	277.0	282.6	294.2	313.4	317.2
162.5°	281.6	285.7	294.2	310.4	314.1
165°	286.6	290.3	294.2	305.8	309.5
167.5°	291.2	293.0	296.1	303.8	305.3
170°	294.2	296.1	296.1	303.8	303.8
172.5°	295.8	296.1	296.1	302.2	300.7
175°	298.0	298.0	296.1	300.0	300.0
177.5°	298.0	298.0	296.5	299.5	298.0
180°	298.0	298.0	298.0	298.0	298.0

(END OF REPORT)