

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: P519834

Luminaire Tested: **SQ4-F-025U-075D-940-1D-UNV-STD-W-8**

Issue Date: 4/29/2021

Test Information

Test Method: LM-79-2019
Report Number: P519834
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1910-536-32, G3-1910-536-18)
Test Lab: INNOVATION CENTER
Issue Date: 4/29/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: CORELITE
Catalog Number: SQ4-F-025U-075D-940-1D-UNV-STD-W-8
Description: CORELITE SQ4 SUSPENDED LED LUMINAIRE
DOWNLIGHT 750 LUMENS PER FOOT
UPLIGHT 250 LUMENS PER FOOT
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

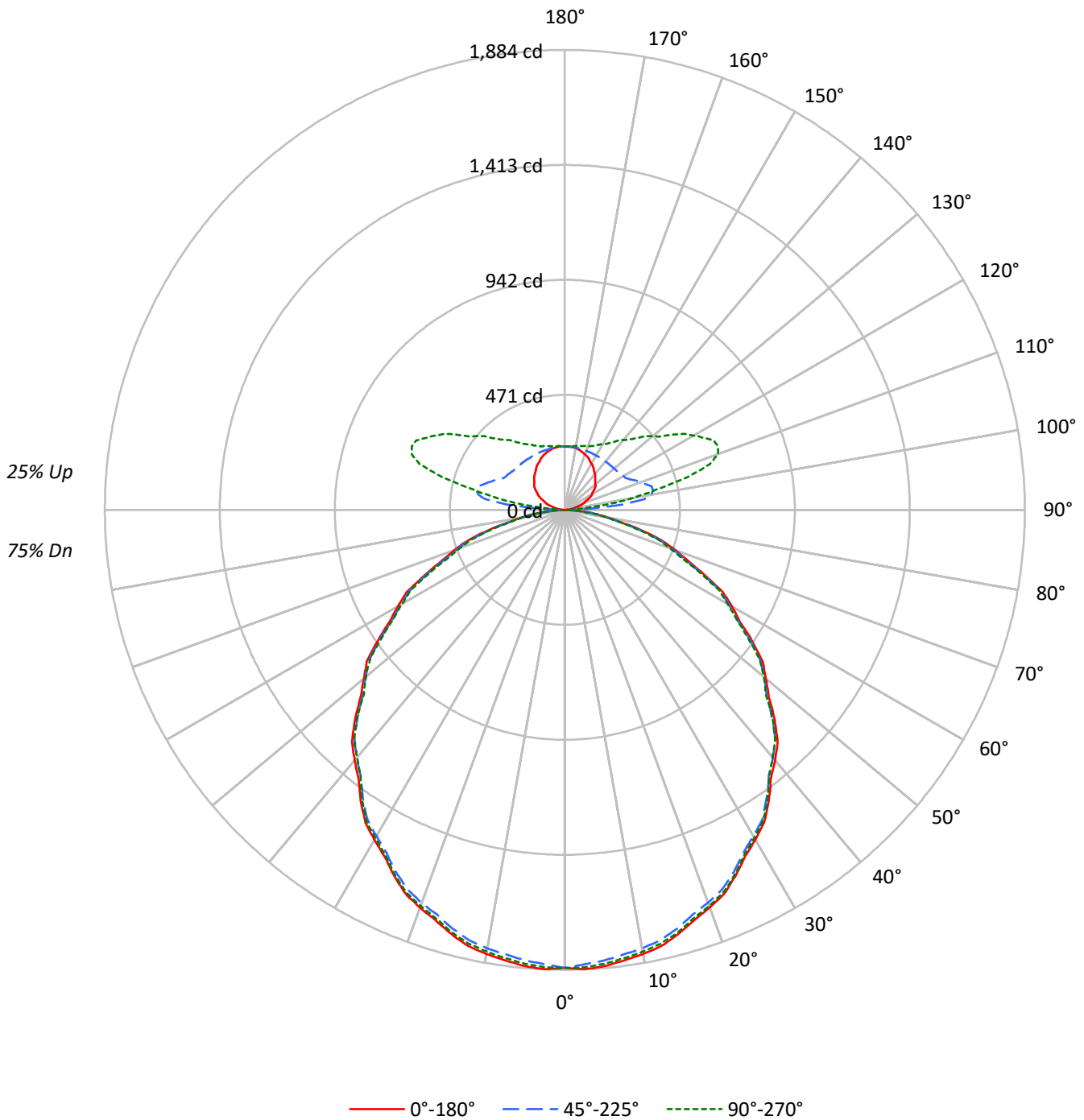
Lumens per Lamp: N/A
Luminaire Lumens: 6811.3 lumens
Efficiency: N/A
Efficacy: 107.8 lumens/watt
Spacing Criteria (0/90/45): 1.24 / 1.24 / 1.35
Luminous Opening: Rectangular (W 0.29' x L: 8' x H: 0')
CIE Type: Semi-Direct

Input Watts (W): 63.2
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	113	113	113	113	108	108	108	108	97	97	97	88	88	88	79	79	79	75
1	103	99	95	91	98	94	91	87	86	83	80	77	75	73	70	68	67	63
2	94	86	80	74	89	82	77	72	75	70	66	68	64	61	62	59	56	53
3	86	76	68	62	81	72	65	60	66	60	56	60	55	52	54	51	48	45
4	79	67	59	52	74	64	57	51	59	52	47	53	48	44	49	44	41	38
5	72	60	51	45	68	57	49	44	52	46	41	48	43	38	44	39	36	33
6	67	54	45	39	63	52	44	38	47	41	36	43	38	34	40	35	31	29
7	62	49	40	34	58	47	39	33	43	36	32	39	34	30	36	31	28	26
8	57	44	36	31	54	43	35	30	39	33	28	36	31	27	33	28	25	23
9	53	41	33	27	51	39	32	27	36	30	25	33	28	24	31	26	22	21
10	50	37	30	25	48	36	29	24	33	27	23	31	25	22	28	24	20	19

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	8657	8657	8657
5°	8690	8580	8643
10°	8656	8544	8607
15°	8589	8483	8556
20°	8511	8411	8478
25°	8418	8331	8392
30°	8311	8220	8266
35°	8202	8116	8153
40°	8063	7982	7971
45°	7925	7825	7848
50°	7705	7643	7643
55°	7526	7430	7362
60°	7283	7158	7095
65°	6890	6760	6667
70°	6471	6311	6150
75°	5823	5611	5488
80°	4657	4564	4519
85°	2789	3149	3239



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	177.1	2.6
10°-20°	504.3	7.4
20°-30°	757.6	11.1
30°-40°	904.0	13.3
40°-50°	927.1	13.6
50°-60°	826.1	12.1
60°-70°	616.0	9.0
70°-80°	334.0	4.9
80°-90°	78.1	1.1
90°-100°	126.8	1.9
100°-110°	333.4	4.9
110°-120°	345.8	5.1
120°-130°	277.3	4.1
130°-140°	217.6	3.2
140°-150°	167.0	2.5
150°-160°	120.3	1.8
160°-170°	73.6	1.1
170°-180°	24.9	0.4
0°-30°	1439.1	21.1
0°-40°	2343.1	34.4
0°-60°	4096.3	60.1
0°-90°	5124.5	75.2
90°-120°	806.1	11.8
90°-150°	1468.1	21.6
90°-180°	1687.0	24.8
0°-180°	6811.3	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1877	1877	1877	1877	1877	
5°	1877	1873	1853	1868	1866	178
15°	1798	1795	1776	1790	1792	507
25°	1654	1652	1637	1645	1649	762
35°	1456	1453	1441	1441	1448	910
45°	1215	1210	1200	1200	1203	935
55°	936	934	924	915	915	836
65°	631	631	619	612	611	628
75°	327	320	315	310	308	343
85°	53	56	60	60	61	73
90°	2	5	13	7	7	3
95°	17	66	218	113	77	19
105°	60	91	369	560	522	64
115°	107	130	295	589	672	105
125°	148	166	269	454	536	132
135°	177	195	260	366	415	137
145°	205	218	257	313	337	129
155°	232	238	257	282	290	107
165°	250	254	257	267	270	71
175°	260	260	259	262	262	25
180°	260	260	260	260	260	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1876.6	1876.6	1876.6	1876.6	1876.6
2.5°	1883.5	1879.5	1863.0	1876.6	1875.3
5°	1876.6	1873.4	1852.8	1868.1	1866.5
7.5°	1861.4	1857.7	1837.5	1852.8	1852.5
10°	1847.8	1842.8	1823.9	1839.2	1837.5
12.5°	1830.1	1825.0	1806.2	1821.5	1819.8
15°	1798.4	1795.0	1776.2	1789.9	1791.6
17.5°	1762.4	1756.0	1739.1	1752.5	1754.2
20°	1733.7	1728.7	1713.3	1725.3	1726.9
22.5°	1703.8	1698.8	1683.3	1695.3	1697.0
25°	1653.8	1652.1	1636.8	1645.4	1648.7
27.5°	1599.7	1595.0	1582.7	1589.2	1592.5
30°	1560.2	1556.9	1543.2	1548.3	1551.7
32.5°	1519.4	1517.3	1505.0	1507.6	1512.2
35°	1456.4	1453.1	1441.1	1441.3	1447.8
37.5°	1386.6	1383.0	1373.1	1371.4	1374.0
40°	1339.0	1334.0	1325.4	1323.7	1323.7
42.5°	1290.0	1286.4	1275.0	1272.1	1276.0
45°	1214.8	1209.8	1199.5	1199.6	1202.9
47.5°	1133.4	1131.5	1119.6	1114.2	1115.4
50°	1073.6	1077.0	1065.0	1058.5	1065.0
52.5°	1021.8	1019.9	1009.3	1002.6	1005.2
55°	935.7	934.1	923.8	915.4	915.4
57.5°	849.3	845.0	834.4	828.0	833.0
60°	789.4	787.7	775.8	764.0	769.0
62.5°	729.6	726.5	714.6	706.9	710.5
65°	631.2	631.2	619.3	612.5	610.8
67.5°	545.2	537.1	530.5	522.2	520.0
70°	479.8	473.1	467.9	460.9	456.0
72.5°	415.9	411.8	404.0	397.1	396.1
75°	326.7	320.0	314.8	309.6	307.9
77.5°	232.4	231.1	226.3	223.6	224.6
80°	175.3	175.3	171.8	171.8	170.1
82.5°	123.5	124.9	124.2	121.4	121.1
85°	52.7	56.1	59.5	59.6	61.2
87.5°	9.8	17.2	17.7	16.3	16.3
90°	1.6	5.0	13.4	6.7	6.7
92.5°	7.0	33.7	74.7	33.1	21.3
95°	16.7	65.6	218.5	112.6	76.8
97.5°	29.1	72.1	327.0	260.0	191.6
100°	38.3	77.5	360.4	365.1	283.6
102.5°	46.4	82.9	369.7	454.9	385.0
105°	60.0	91.1	368.7	559.7	522.2
107.5°	74.1	102.8	347.6	614.1	623.2
110°	83.4	109.5	330.3	628.2	667.3

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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	92.7	117.6	314.3	619.3	679.3
115°	106.8	129.6	295.3	589.1	672.4
117.5°	120.4	141.4	282.3	547.3	639.7
120°	128.5	148.1	276.9	519.2	608.9
122.5°	136.5	156.0	272.9	491.1	579.5
125°	148.4	166.4	268.6	453.9	535.5
127.5°	158.2	176.5	265.0	424.0	492.8
130°	163.5	183.0	263.6	405.2	468.8
132.5°	168.8	188.4	262.3	389.0	446.1
135°	176.8	194.8	260.3	366.5	415.4
137.5°	185.1	202.8	259.9	349.6	389.7
140°	191.8	208.2	258.6	336.2	373.7
142.5°	197.2	212.2	258.6	326.7	359.0
145°	205.2	218.2	256.9	312.6	337.0
147.5°	213.3	226.0	256.9	300.7	321.0
150°	218.5	230.0	256.9	294.0	310.3
152.5°	223.9	232.7	256.9	288.6	301.0
155°	231.9	238.4	256.9	282.2	290.3
157.5°	237.9	244.1	256.9	276.4	282.3
160°	241.9	246.8	256.9	273.7	276.9
162.5°	245.9	249.5	256.9	271.0	274.2
165°	250.2	253.5	256.9	267.0	270.2
167.5°	254.3	255.9	258.6	265.3	266.6
170°	256.9	258.6	258.6	265.3	265.3
172.5°	258.3	258.6	258.6	263.9	262.6
175°	260.3	260.3	258.6	261.9	261.9
177.5°	260.3	260.3	258.9	261.5	260.3
180°	260.3	260.3	260.3	260.3	260.3

(END OF REPORT)