

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: P520056

Luminaire Tested: **SQ4-F-075U-125D-835-1D-UNV-STD-W-4**

Issue Date: 4/29/2021

Test Information

Test Method: LM-79-2019
Report Number: P520056
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1910-536-22, G3-1910-536-20)
Test Lab: INNOVATION CENTER
Issue Date: 4/29/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: CORELITE
Catalog Number: SQ4-F-075U-125D-835-1D-UNV-STD-W-4
Description: CORELITE SQ4 SUSPENDED LED LUMINAIRE
DOWNLIGHT 1250 LUMENS PER FOOT
UPLIGHT 750 LUMENS PER FOOT
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

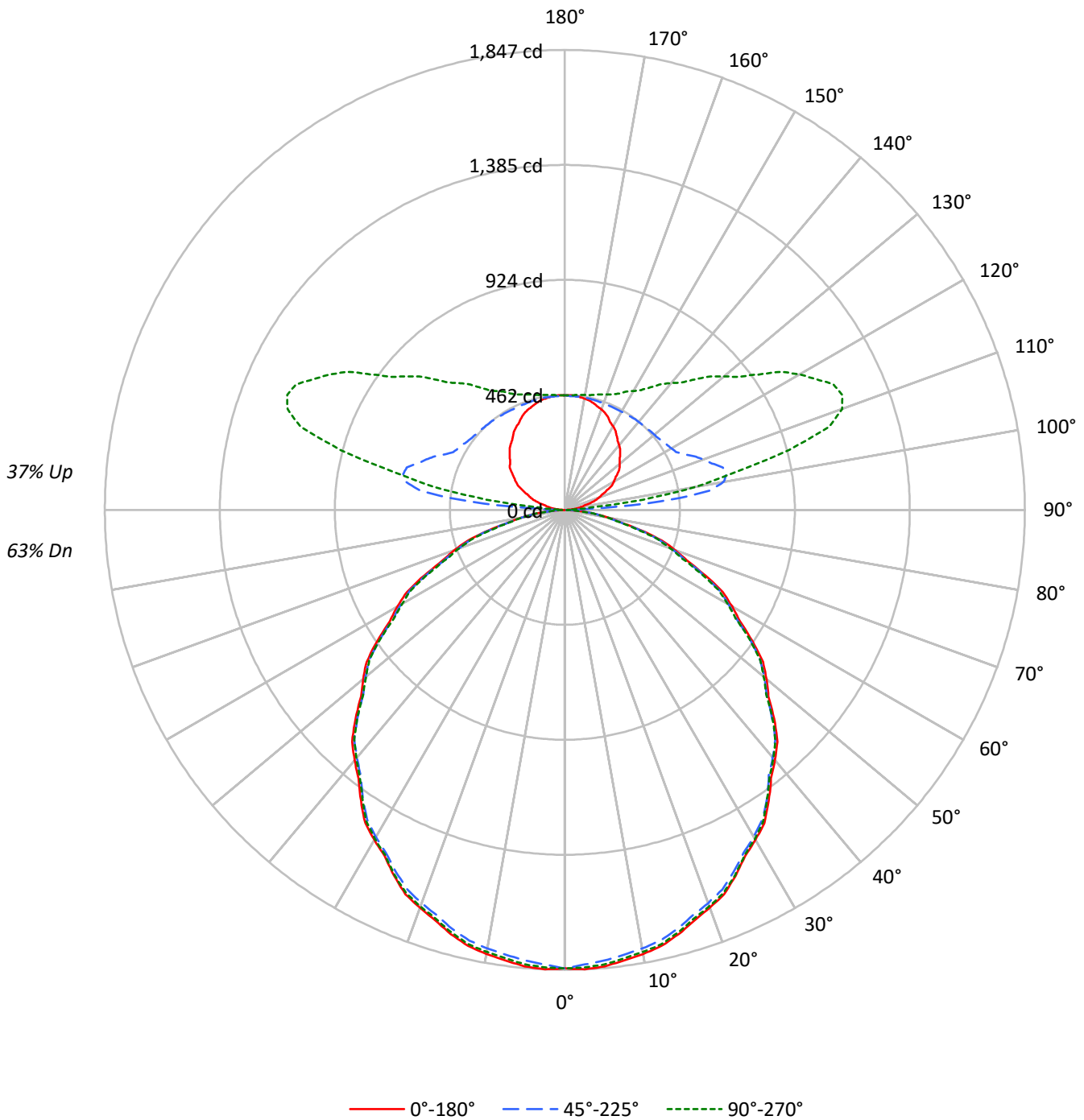
Lumens per Lamp: N/A
Luminaire Lumens: 8019.3 lumens
Efficiency: N/A
Efficacy: 129.1 lumens/watt
Spacing Criteria (0/90/45): 1.24 / 1.24 / 1.35
Luminous Opening: Rectangular (W 0.29' x L: 4' x H: 0')
CIE Type: Semi-Direct

Input Watts (W): 62.1
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



TEST NUMBER: P520056
CATALOG NUMBER: SQ4-F-075U-125D-835-1D-UNV-STD-W-4

Luminous Intensity Polar Plot





TEST NUMBER: P520056

CATALOG NUMBER: SQ4-F-075U-125D-835-1D-UNV-STD-W-4

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	110	110	110	110	103	103	103	103	90	90	90	79	79	79	68	68	68	63
1	101	96	92	89	94	90	87	84	79	77	74	69	67	66	60	59	57	53
2	92	84	78	72	86	79	73	69	69	65	61	61	57	55	53	50	48	44
3	83	74	66	60	78	69	63	57	61	56	52	54	49	46	47	43	41	37
4	76	65	57	51	71	61	54	48	54	48	44	48	43	39	41	38	35	32
5	70	58	50	44	65	55	47	42	49	42	38	43	38	34	37	34	30	27
6	65	52	44	38	60	49	42	36	44	38	33	39	34	30	34	30	27	24
7	60	47	39	33	56	45	37	32	40	34	29	35	30	26	31	27	24	21
8	55	43	35	29	52	41	33	28	36	30	26	32	27	24	28	24	21	19
9	52	39	31	26	48	37	30	25	33	27	23	30	25	21	26	22	19	17
10	48	36	28	24	45	34	27	23	31	25	21	27	23	19	24	20	17	15

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	16991	16991	16991
5°	17046	16830	16971
10°	16968	16759	16891
15°	16854	16651	16786
20°	16698	16509	16638
25°	16508	16333	16467
30°	16304	16163	16250
35°	16072	15936	15947
40°	15808	15637	15686
45°	15513	15340	15366
50°	15173	14998	14955
55°	14787	14575	14543
60°	14306	13989	13915
65°	13564	13275	13099
70°	12630	12304	12139
75°	11236	10983	10659
80°	9155	8884	8830
85°	5473	6224	6224



TEST NUMBER: P520056

CATALOG NUMBER: SQ4-F-075U-125D-835-1D-UNV-STD-W-4

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	173.8	2.2
10°-20°	494.9	6.2
20°-30°	743.5	9.3
30°-40°	887.1	11.1
40°-50°	909.3	11.3
50°-60°	810.5	10.1
60°-70°	603.3	7.5
70°-80°	326.9	4.1
80°-90°	76.2	1.0
90°-100°	216.8	2.7
100°-110°	596.3	7.4
110°-120°	615.5	7.7
120°-130°	493.1	6.1
130°-140°	387.3	4.8
140°-150°	296.8	3.7
150°-160°	213.4	2.7
160°-170°	130.5	1.6
170°-180°	44.0	0.5
0°-30°	1412.1	17.6
0°-40°	2299.2	28.7
0°-60°	4019.1	50.1
0°-90°	5025.5	62.7
90°-120°	1428.6	17.8
90°-150°	2605.9	32.5
90°-180°	2994.0	37.3
0°-180°	8019.3	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1842	1842	1842	1842	1842	
5°	1840	1838	1817	1834	1832	175
15°	1764	1761	1743	1758	1757	497
25°	1622	1619	1604	1614	1618	747
35°	1427	1426	1415	1415	1416	892
45°	1189	1186	1176	1174	1178	916
55°	919	916	906	899	904	821
65°	621	617	608	604	600	615
75°	315	315	308	302	299	335
85°	52	59	59	60	59	71
90°	1	4	7	9	9	3
95°	32	118	383	164	105	34
105°	107	164	657	1001	934	112
115°	189	230	527	1049	1191	186
125°	260	296	478	809	948	232
135°	314	348	464	654	740	242
145°	363	388	458	557	600	227
155°	411	424	455	501	515	189
165°	444	450	457	475	478	125
175°	460	460	458	463	462	44
180°	460	460	460	460	460	

TEST NUMBER: P520056

CATALOG NUMBER: SQ4-F-075U-125D-835-1D-UNV-STD-W-4

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1841.6	1841.6	1841.6	1841.6	1841.6
2.5°	1847.2	1844.1	1827.8	1841.5	1839.1
5°	1840.5	1837.6	1817.2	1833.5	1832.4
7.5°	1824.9	1821.2	1802.6	1817.8	1816.0
10°	1811.2	1808.2	1788.9	1804.1	1803.0
12.5°	1794.1	1791.2	1771.8	1787.0	1786.8
15°	1764.5	1760.6	1743.3	1758.5	1757.4
17.5°	1729.1	1724.5	1707.4	1719.3	1721.4
20°	1700.7	1697.7	1681.4	1692.6	1694.6
22.5°	1671.5	1667.7	1650.6	1663.4	1665.4
25°	1621.6	1618.7	1604.4	1613.6	1617.6
27.5°	1566.9	1566.9	1553.7	1560.3	1562.6
30°	1530.4	1530.4	1517.2	1521.4	1525.3
32.5°	1491.5	1488.4	1475.9	1479.2	1483.2
35°	1427.0	1426.0	1414.9	1414.9	1415.9
37.5°	1360.3	1357.6	1345.3	1346.3	1351.0
40°	1312.5	1310.5	1298.3	1298.4	1302.4
42.5°	1263.9	1261.8	1251.3	1249.7	1251.3
45°	1188.9	1185.9	1175.7	1173.8	1177.7
47.5°	1109.0	1109.8	1097.6	1094.8	1097.0
50°	1057.1	1057.1	1044.9	1039.0	1041.9
52.5°	1002.8	1001.2	989.0	982.3	989.2
55°	919.3	916.3	906.1	899.1	904.1
57.5°	833.7	829.2	818.9	811.3	814.1
60°	775.3	768.4	758.1	752.0	754.1
62.5°	714.5	710.8	699.7	690.5	694.9
65°	621.3	617.3	608.1	604.0	600.0
67.5°	529.9	527.3	516.9	512.5	510.0
70°	468.2	463.3	456.1	451.0	450.0
72.5°	408.2	402.5	395.3	390.9	388.4
75°	315.2	315.2	308.1	301.9	299.0
77.5°	226.6	227.4	221.6	219.5	218.1
80°	172.3	172.3	167.2	165.2	166.2
82.5°	120.4	122.7	121.0	118.2	116.8
85°	51.7	58.6	58.8	59.8	58.8
87.5°	9.1	15.3	16.8	15.6	14.0
90°	1.0	3.8	6.8	8.8	8.8
92.5°	13.5	57.7	100.0	38.3	31.5
95°	32.3	118.4	383.3	163.9	104.7
97.5°	52.6	131.2	584.9	450.6	318.0
100°	67.5	139.2	648.3	654.4	533.9
102.5°	81.6	148.7	664.7	811.7	701.2
105°	106.6	163.9	657.1	1000.7	933.8
107.5°	130.5	182.8	619.7	1093.2	1113.1
110°	147.6	195.4	591.6	1116.2	1185.1

TEST NUMBER: P520056

CATALOG NUMBER: SQ4-F-075U-125D-835-1D-UNV-STD-W-4

CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	163.2	209.5	563.4	1101.4	1206.2
115°	188.7	229.9	527.0	1049.4	1191.0
117.5°	212.9	250.8	503.9	976.6	1136.6
120°	227.8	264.2	493.8	921.9	1087.3
122.5°	241.1	277.5	486.7	873.9	1030.9
125°	260.1	296.4	478.1	808.8	947.5
127.5°	278.1	312.7	472.4	754.4	876.1
130°	287.5	322.9	469.3	722.1	833.1
132.5°	298.4	333.8	467.0	693.8	793.9
135°	313.9	348.3	464.4	654.2	740.1
137.5°	328.4	360.2	462.3	622.1	693.0
140°	339.3	368.9	461.5	600.9	664.9
142.5°	348.7	376.0	459.9	581.9	636.8
145°	362.8	387.6	457.6	557.3	600.4
147.5°	377.8	399.3	456.4	535.6	570.0
150°	387.2	406.3	455.6	523.7	550.5
152.5°	395.8	413.4	454.8	513.4	535.6
155°	410.6	424.0	454.6	500.9	515.3
157.5°	421.4	432.3	454.6	490.6	500.6
160°	429.2	437.8	454.6	485.1	492.8
162.5°	435.5	442.6	455.4	480.5	486.5
165°	443.9	449.6	456.6	475.3	478.1
167.5°	449.7	454.1	457.6	470.9	471.6
170°	453.7	456.6	457.6	469.3	469.3
172.5°	456.8	458.2	457.6	467.0	466.2
175°	459.5	460.5	457.6	463.4	462.5
177.5°	460.3	460.3	457.2	461.9	460.3
180°	459.5	459.5	459.5	459.5	459.5

(END OF REPORT)