

Scaled data based on original data using
LM-79-08 Approved Method: Electrical and Photometric Measurements of Solid-State
Lighting Products

Test Report Prepared for

Cooper Lighting Solutions

(formerly Eaton)

Brand: CORELITE

Report Number: P521676

Luminaire Tested: **SQ4-F-150U-075D-93050-1D-UNV-STD-W-4 (4500K)**

Issue Date: 5/5/2021

Test Information

Test Method: LM-79-08
Report Number: P521676
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2101-105-50,
Test Lab: INNOVATION CENTER
Issue Date: 5/5/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: CORELITE
Catalog Number: SQ4-F-150U-075D-93050-1D-UNV-STD-W-4 (4500K)
Description: CORELITE SQ4 SUSPENDED LED LUMINAIRE
DOWNLIGHT 750 LUMENS PER FOOT
UPLIGHT 1500 LUMENS PER FOOT
Light Source: 3000K/5000K CCT, 90 CRI LEDS, TUNED TO 4500K CCT
Ballast/Driver: ELECTRONIC DRIVER

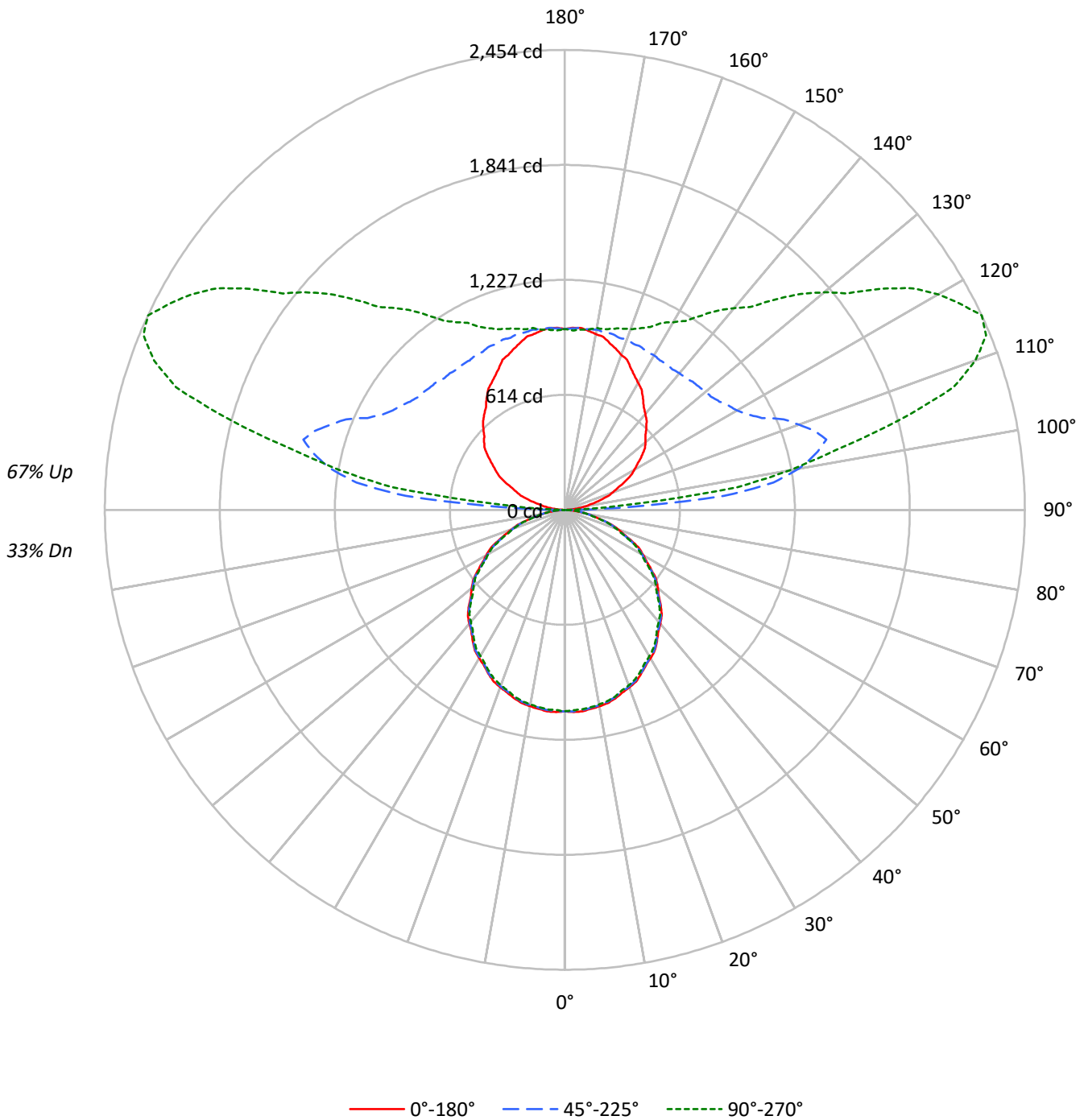
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 9310.3 lumens
Efficiency: N/A
Efficacy: 112.9 lumens/watt
Spacing Criteria (0/90/45): 1.27 / 1.25 / 1.38
Luminous Opening: Rectangular (W 0.29' x L: 4' x H: 0')
CIE Type: Semi-Indirect

Input Watts (W): 82.5
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	103	103	103	103	93	93	93	93	74	74	74	56	56	56	40	40	40	33
1	94	90	86	82	84	81	78	75	64	62	60	49	48	47	36	35	34	28
2	85	78	72	67	77	71	65	61	56	53	50	43	41	39	31	30	28	23
3	78	68	61	56	70	62	56	51	50	45	42	38	35	33	27	26	24	19
4	71	60	53	47	64	55	48	43	44	39	35	34	30	28	24	22	21	16
5	65	54	46	40	58	49	42	37	39	34	30	30	27	24	22	20	18	14
6	60	48	40	34	54	44	37	32	35	30	26	27	24	21	20	17	16	12
7	55	43	35	30	49	39	32	28	32	27	23	25	21	18	18	16	14	11
8	51	39	31	26	46	35	29	24	29	24	20	22	19	16	17	14	12	10
9	47	35	28	23	43	32	26	21	26	21	18	21	17	14	15	13	11	9
10	44	32	25	21	40	30	23	19	24	19	16	19	15	13	14	12	10	8

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	9916	9916	9916
5°	9992	9925	9898
10°	9974	9917	9878
15°	9945	9877	9857
20°	9893	9843	9783
25°	9823	9781	9697
30°	9737	9704	9607
35°	9641	9595	9515
40°	9550	9488	9389
45°	9441	9362	9269
50°	9291	9218	9102
55°	9135	9021	8906
60°	8920	8770	8676
65°	8643	8420	8311
70°	8128	7907	7826
75°	7258	7112	7001
80°	6004	6057	6004
85°	4308	4848	5060



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	101.7	1.1
10°-20°	291.3	3.1
20°-30°	440.6	4.7
30°-40°	530.5	5.7
40°-50°	551.0	5.9
50°-60°	500.0	5.4
60°-70°	381.4	4.1
70°-80°	212.5	2.3
80°-90°	55.8	0.6
90°-100°	497.2	5.3
100°-110°	1201.7	12.9
110°-120°	1281.7	13.8
120°-130°	1038.1	11.2
130°-140°	803.7	8.6
140°-150°	613.1	6.6
150°-160°	443.8	4.8
160°-170°	273.4	2.9
170°-180°	92.6	1.0
0°-30°	833.7	9.0
0°-40°	1364.2	14.7
0°-60°	2415.2	25.9
0°-90°	3064.8	32.9
90°-120°	2980.7	32.0
90°-150°	5435.7	58.4
90°-180°	6245.0	67.1
0°-180°	9310.3	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1075	1075	1075	1075	1075	
5°	1079	1069	1072	1070	1069	102
15°	1041	1029	1034	1032	1032	294
25°	965	955	961	952	953	444
35°	856	850	852	843	845	536
45°	724	717	718	708	710	557
55°	568	565	561	554	554	507
65°	396	392	386	380	381	390
75°	204	203	200	197	196	216
85°	41	46	46	48	48	50
90°	0	0	0	0	0	4
95°	49	249	852	554	388	55
105°	192	332	1444	1869	1845	203
115°	351	449	1160	2200	2454	347
125°	500	576	1007	1750	2055	447
135°	615	687	966	1380	1587	475
145°	727	781	948	1173	1265	455
155°	834	870	960	1039	1077	385
165°	921	935	972	987	1001	260
175°	974	970	974	966	964	92
180°	964	964	964	964	964	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1074.8	1074.8	1074.8	1074.8	1074.8
2.5°	1080.5	1072.5	1075.6	1073.1	1069.1
5°	1078.9	1068.9	1071.7	1069.7	1068.7
7.5°	1071.1	1061.2	1065.0	1062.0	1061.8
10°	1064.6	1054.7	1058.5	1055.4	1054.4
12.5°	1056.5	1045.7	1049.5	1046.5	1046.3
15°	1041.2	1029.3	1034.1	1032.0	1032.0
17.5°	1022.3	1010.5	1016.4	1012.7	1011.1
20°	1007.6	996.7	1002.5	996.4	996.4
22.5°	992.1	981.2	986.2	979.3	979.3
25°	964.9	954.9	960.8	951.7	952.6
27.5°	935.1	926.2	931.3	922.5	922.9
30°	914.0	905.0	910.9	899.8	901.8
32.5°	892.0	883.8	887.3	877.7	878.1
35°	856.0	850.0	851.9	842.8	844.8
37.5°	818.9	811.9	813.8	804.5	806.5
40°	792.9	785.9	787.8	777.6	779.6
42.5°	765.2	759.0	760.1	750.0	752.8
45°	723.6	716.7	717.5	708.4	710.4
47.5°	679.1	673.5	672.3	664.0	665.8
50°	647.3	643.3	642.2	633.1	634.1
52.5°	615.6	612.4	609.7	601.4	604.0
55°	567.9	564.9	560.8	553.7	553.7
57.5°	518.5	515.5	510.3	503.2	505.2
60°	483.4	480.5	475.3	468.2	470.2
62.5°	448.4	445.5	439.5	433.2	434.4
65°	395.9	391.9	385.7	379.7	380.7
67.5°	339.5	335.8	330.6	324.7	325.9
70°	301.3	298.3	293.1	288.1	290.1
72.5°	261.4	258.4	254.0	251.4	251.0
75°	203.6	202.6	199.5	197.4	196.4
77.5°	148.8	150.2	146.6	145.7	145.5
80°	113.0	116.0	114.0	114.0	113.0
82.5°	81.2	85.8	84.7	84.7	84.5
85°	40.7	45.7	45.8	47.8	47.8
87.5°	11.4	16.2	18.7	19.5	19.5
90°	0.0	0.0	0.0	0.0	0.0
92.5°	16.3	134.6	317.1	154.1	104.6
95°	49.0	248.8	851.9	554.0	388.2
97.5°	87.0	275.6	1122.0	1080.9	927.9
100°	116.4	292.2	1270.7	1341.4	1215.6
102.5°	144.2	307.2	1368.8	1558.3	1483.6
105°	192.0	331.9	1444.4	1868.8	1844.8
107.5°	239.0	360.9	1399.8	2117.8	2174.1
110°	271.7	385.6	1327.9	2225.2	2331.0

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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	304.4	410.3	1264.2	2251.4	2432.4
115°	351.4	449.3	1160.4	2199.9	2453.6
117.5°	398.0	490.3	1099.5	2081.6	2378.8
120°	429.0	514.9	1060.3	1988.8	2300.4
122.5°	461.7	541.2	1035.8	1893.9	2200.7
125°	500.5	576.4	1007.2	1749.6	2055.2
127.5°	538.9	610.4	987.2	1627.4	1895.9
130°	561.8	631.7	980.6	1542.3	1806.0
132.5°	583.1	656.2	970.8	1480.9	1704.7
135°	614.9	686.8	966.3	1379.6	1587.4
137.5°	645.2	717.5	952.0	1311.1	1467.7
140°	668.1	734.0	952.0	1261.7	1405.6
142.5°	690.9	756.9	943.9	1218.7	1340.2
145°	727.3	781.2	947.9	1172.7	1264.6
147.5°	761.2	813.5	945.5	1119.6	1195.5
150°	782.5	828.4	952.0	1096.4	1156.3
152.5°	805.3	849.7	950.4	1071.7	1125.3
155°	833.5	869.5	960.2	1038.7	1076.6
157.5°	867.4	898.2	958.2	1026.1	1048.5
160°	880.5	906.5	966.3	1009.6	1025.6
162.5°	901.8	924.5	963.1	1004.5	1014.1
165°	921.4	935.4	972.5	987.1	1001.1
167.5°	945.5	954.7	970.0	985.9	986.3
170°	952.0	958.0	976.5	974.7	984.7
172.5°	963.5	967.9	971.6	976.0	970.0
175°	974.5	970.5	974.5	966.3	964.3
177.5°	972.5	972.5	969.2	965.7	957.7
180°	964.3	964.3	964.3	964.3	964.3

(END OF REPORT)