

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: P521832

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

Issue Date: 5/5/2021

Test Information

Test Method: LM-79-08
Report Number: P521832
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-WB-075U-075D-93050-1D-UNV-STD-W-4 (4500K)
Description: CORELITE SQ4 SUSPENDED LED LUMINAIRE WITH WHITE BAFFLE
DOWNLIGHT 750 LUMENS PER FOOT
UPLIGHT 750 LUMENS PER FOOT
Light Source: 3000K/5000K CCT, 90 CRI LEDS, TUNED TO 4500K CCT
Ballast/Driver: ELECTRONIC DRIVER

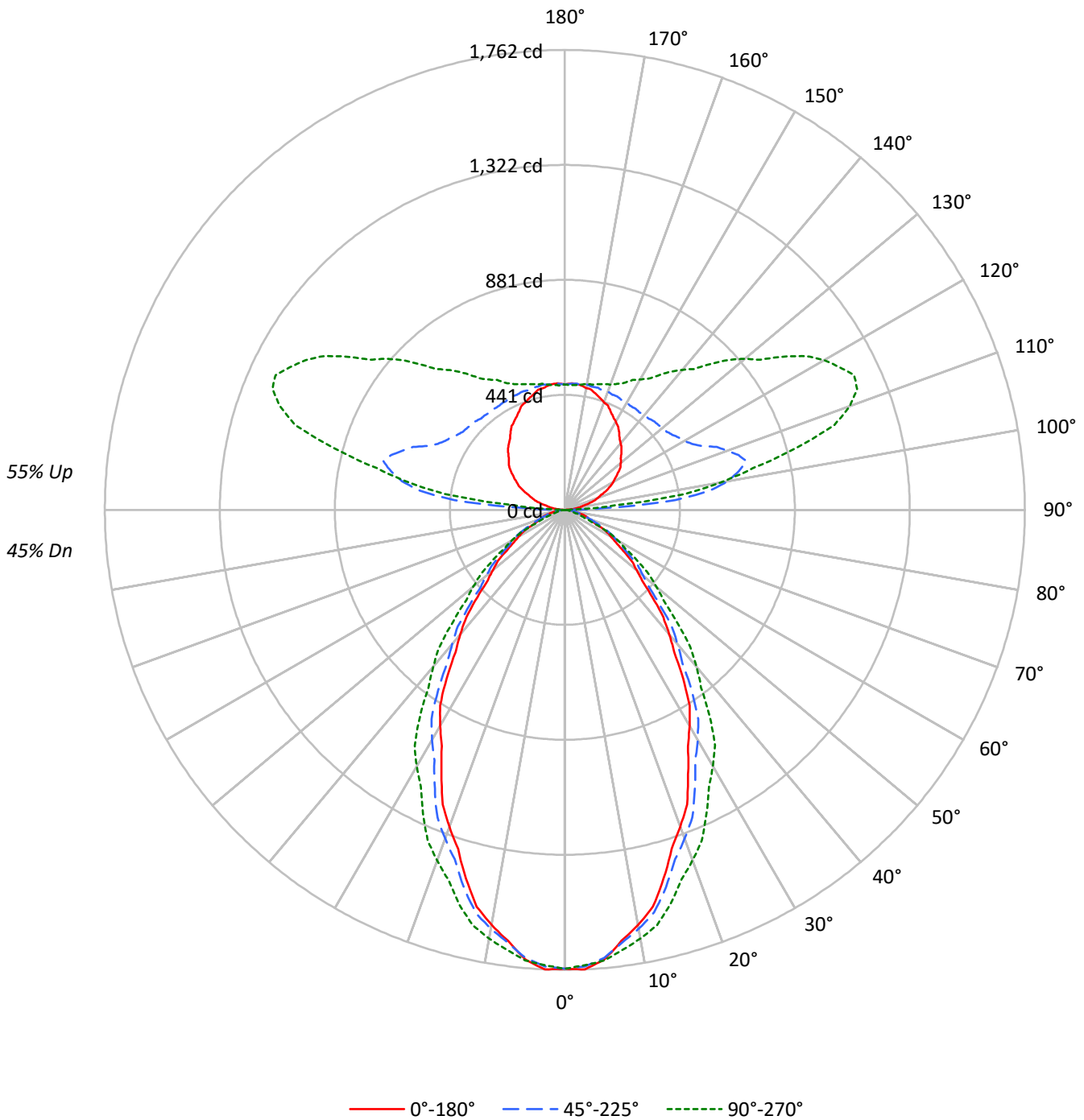
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 5673.2 lumens
Efficiency: N/A
Efficacy: 102.8 lumens/watt
Spacing Criteria (0/90/45): 0.89 / 1 / 1.02
Luminous Opening: Rectangular (W 0.29' x L: 4' x H: 0')
CIE Type: General Diffuse

Input Watts (W): 55.2
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	106	106	106	106	97	97	97	97	81	81	81	66	66	66	52	52	52	45
1	98	94	90	87	90	86	83	81	72	70	68	59	58	57	47	46	46	40
2	90	83	78	73	82	77	72	68	65	61	58	53	51	49	43	41	40	35
3	83	74	67	62	76	68	63	58	58	54	50	48	45	43	39	37	35	31
4	76	66	59	54	70	61	55	50	52	48	44	44	40	38	36	33	31	28
5	70	60	52	47	65	55	49	44	47	42	39	40	36	33	33	30	28	25
6	65	54	46	41	60	50	44	39	43	38	34	36	33	30	30	27	25	23
7	61	49	42	36	56	46	39	35	39	34	31	33	30	27	28	25	23	20
8	56	45	38	33	52	42	35	31	36	31	28	31	27	24	26	23	21	19
9	53	41	34	29	49	39	32	28	33	28	25	29	25	22	24	21	19	17
10	49	38	31	27	46	36	29	25	31	26	23	27	23	20	23	20	18	16

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	16220	16220	16220
5°	16018	15960	16054
10°	15133	15271	15625
15°	13970	14294	14935
20°	12686	13163	14034
25°	11379	11999	13075
30°	10174	10840	12081
35°	8897	9540	10904
40°	7489	8083	9440
45°	6179	6713	7881
50°	5160	5625	6565
55°	4380	4827	5422
60°	3744	4185	4327
65°	2980	3519	2797
70°	2644	2746	1708
75°	2449	2228	1044
80°	2253	2051	903
85°	2043	1874	730



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	161.3	2.8
10°-20°	419.4	7.4
20°-30°	543.3	9.6
30°-40°	532.0	9.4
40°-50°	407.2	7.2
50°-60°	271.4	4.8
60°-70°	148.1	2.6
70°-80°	61.7	1.1
80°-90°	17.5	0.3
90°-100°	247.7	4.4
100°-110°	598.7	10.6
110°-120°	638.5	11.3
120°-130°	517.2	9.1
130°-140°	400.4	7.1
140°-150°	305.5	5.4
150°-160°	221.1	3.9
160°-170°	136.2	2.4
170°-180°	46.1	0.8
0°-30°	1124.0	19.8
0°-40°	1656.0	29.2
0°-60°	2334.5	41.1
0°-90°	2561.8	45.2
90°-120°	1485.0	26.2
90°-150°	2708.0	47.7
90°-180°	3111.0	54.8
0°-180°	5673.2	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1758	1758	1758	1758	1758	
5°	1730	1712	1723	1727	1733	161
15°	1463	1457	1496	1537	1564	408
25°	1118	1121	1179	1230	1284	514
35°	790	794	847	904	968	491
45°	474	483	514	554	604	369
55°	272	284	300	312	337	247
65°	136	148	161	141	128	142
75°	69	69	62	43	29	73
85°	19	19	18	12	7	21
90°	0	0	0	0	0	2
95°	24	124	424	276	193	27
105°	96	165	720	931	919	101
115°	175	224	578	1096	1222	173
125°	249	287	502	872	1024	222
135°	306	342	481	687	791	237
145°	362	389	472	584	630	226
155°	415	433	478	518	536	192
165°	459	466	484	492	499	130
175°	486	484	486	481	480	46
180°	480	480	480	480	480	

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CATALOG NUMBER: SQ4-WB-075U-075D-93050-1D-UNV-STD-W-4 (4500K)

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1758.0	1758.0	1758.0	1758.0	1758.0
2.5°	1762.4	1746.7	1750.6	1750.5	1745.7
5°	1729.5	1712.1	1723.3	1727.3	1733.4
7.5°	1665.3	1652.2	1672.6	1687.7	1699.9
10°	1615.3	1604.0	1630.0	1651.9	1667.8
12.5°	1557.3	1547.8	1580.0	1609.5	1630.1
15°	1462.6	1457.3	1496.5	1537.2	1563.6
17.5°	1361.2	1358.7	1403.7	1451.2	1485.0
20°	1292.1	1291.4	1340.7	1390.2	1429.4
22.5°	1222.4	1224.0	1275.9	1327.4	1372.0
25°	1117.8	1120.8	1178.7	1230.1	1284.4
27.5°	1021.0	1022.4	1082.3	1136.5	1194.4
30°	955.0	958.8	1017.5	1073.6	1134.0
32.5°	889.0	893.3	950.8	1008.9	1070.4
35°	789.9	793.7	847.0	904.0	968.1
37.5°	687.8	692.9	740.2	794.1	857.2
40°	621.8	629.3	671.1	721.9	783.8
42.5°	558.2	567.5	606.3	654.5	710.3
45°	473.6	482.7	514.5	553.5	604.0
47.5°	400.8	411.2	435.7	469.2	512.4
50°	359.5	369.3	391.9	416.7	457.4
52.5°	323.1	332.9	353.0	372.1	406.8
55°	272.3	283.6	300.1	311.5	337.1
57.5°	230.7	241.5	254.6	259.7	275.2
60°	202.9	214.9	226.8	226.2	234.5
62.5°	177.6	187.8	199.6	191.5	191.9
65°	136.5	147.9	161.2	140.9	128.1
67.5°	110.3	112.7	126.5	98.2	83.0
70°	98.0	98.0	101.8	76.1	63.3
72.5°	86.2	86.2	82.7	61.9	48.4
75°	68.7	68.7	62.5	42.9	29.3
77.5°	52.9	52.3	47.8	32.0	21.3
80°	42.4	42.4	38.6	25.3	17.0
82.5°	33.2	33.2	29.9	19.7	12.7
85°	19.3	19.3	17.7	11.5	6.9
87.5°	6.8	6.8	6.2	3.7	3.1
90°	0.0	0.0	0.0	0.0	0.0
92.5°	8.1	67.1	158.0	76.8	52.1
95°	24.4	123.9	424.4	276.0	193.4
97.5°	43.4	137.3	559.0	538.5	462.3
100°	58.0	145.6	633.1	668.3	605.6
102.5°	71.9	153.1	681.9	776.3	739.1
105°	95.7	165.3	719.6	931.0	919.1
107.5°	119.1	179.8	697.4	1055.1	1083.1
110°	135.4	192.1	661.6	1108.5	1161.3

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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	151.6	204.4	629.8	1121.6	1211.8
115°	175.1	223.8	578.1	1096.0	1222.4
117.5°	198.3	244.2	547.8	1037.0	1185.1
120°	213.7	256.5	528.2	990.8	1146.0
122.5°	230.0	269.6	516.0	943.5	1096.4
125°	249.4	287.2	501.8	871.6	1023.9
127.5°	268.5	304.1	491.8	810.8	944.5
130°	279.9	314.7	488.5	768.4	899.7
132.5°	290.5	326.9	483.7	737.8	849.2
135°	306.4	342.2	481.4	687.3	790.8
137.5°	321.4	357.4	474.3	653.2	731.2
140°	332.8	365.7	474.3	628.6	700.2
142.5°	344.2	377.1	470.2	607.2	667.7
145°	362.3	389.2	472.3	584.2	630.0
147.5°	379.2	405.3	471.0	557.8	595.6
150°	389.8	412.7	474.3	546.2	576.1
152.5°	401.2	423.3	473.5	533.9	560.6
155°	415.3	433.2	478.4	517.5	536.4
157.5°	432.2	447.5	477.3	511.2	522.3
160°	438.7	451.6	481.4	503.0	510.9
162.5°	449.3	460.6	479.8	500.5	505.2
165°	459.0	466.0	484.5	491.7	498.7
167.5°	471.0	475.6	483.2	491.2	491.4
170°	474.3	477.3	486.5	485.6	490.6
172.5°	480.0	482.2	484.1	486.2	483.2
175°	485.5	483.5	485.5	481.4	480.4
177.5°	484.5	484.5	482.8	481.1	477.1
180°	480.4	480.4	480.4	480.4	480.4

(END OF REPORT)