

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: P522041

Luminaire Tested: **SQ4-WB-150U-075D-93050-1D-UNV-STD-W-4 (5000K)**

Issue Date: 5/5/2021

Test Information

Test Method: LM-79-08
Report Number: P522041
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-150U-075D-93050-1D-UNV-STD-W-4 (5000K)
Description: CORELITE SQ4 SUSPENDED LED LUMINAIRE WITH WHITE BAFFLE
DOWNLIGHT 750 LUMENS PER FOOT
UPLIGHT 1500 LUMENS PER FOOT
Light Source: 3000K/5000K CCT, 90 CRI LEDS, TUNED TO 5000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

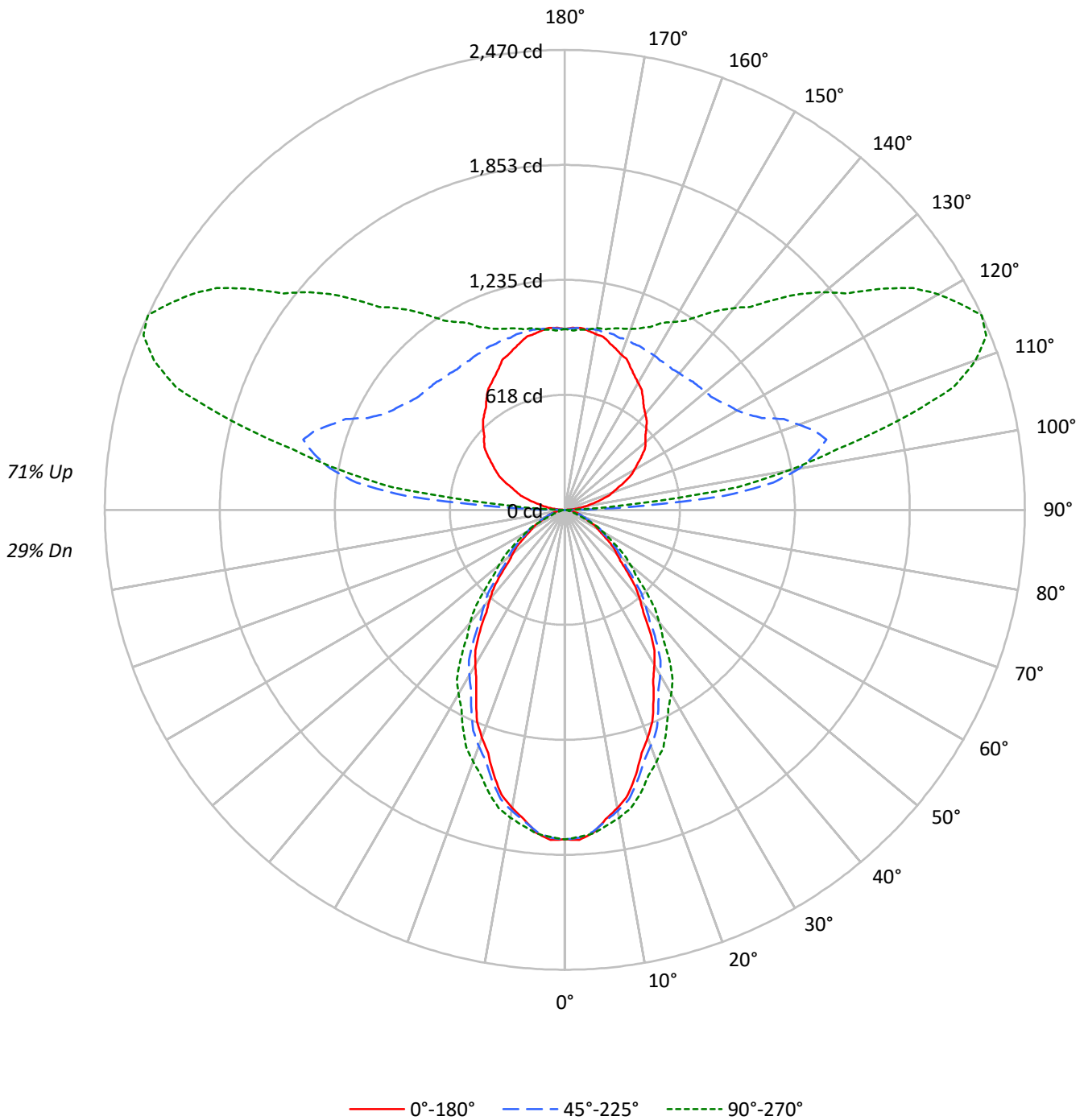
Lumens per Lamp: N/A
Luminaire Lumens: 8867.2 lumens
Efficiency: N/A
Efficacy: 107.6 lumens/watt
Spacing Criteria (0/90/45): 0.89 / 1 / 1.02
Luminous Opening: Rectangular (W 0.29' x L: 4' x H: 0')
CIE Type: Semi-Indirect

Input Watts (W): 82.4
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	102	102	102	102	92	92	92	92	72	72	72	54	54	54	37	37	37	29
1	94	90	86	83	84	81	78	75	64	62	60	48	47	46	34	33	32	26
2	86	79	74	69	77	71	67	63	57	53	51	43	41	39	30	29	28	23
3	79	70	64	58	71	63	58	53	51	47	43	39	36	34	28	26	25	20
4	72	63	55	50	65	57	50	46	45	41	38	35	32	30	25	23	22	18
5	67	56	48	43	60	51	44	40	41	36	33	32	29	26	23	21	20	16
6	61	50	43	38	55	46	39	35	37	32	29	29	26	23	21	19	18	15
7	57	46	38	33	51	41	35	31	34	29	26	26	23	21	19	18	16	13
8	53	41	34	29	48	38	32	27	31	26	23	24	21	19	18	16	15	12
9	49	38	31	26	44	35	29	24	28	24	21	22	19	17	17	15	13	11
10	46	35	28	24	41	32	26	22	26	22	19	21	18	15	16	14	12	10

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	16330	16330	16330
5°	16127	16070	16163
10°	15236	15375	15732
15°	14066	14391	15037
20°	12773	13253	14131
25°	11457	12081	13165
30°	10243	10913	12163
35°	8958	9605	10978
40°	7540	8138	9504
45°	6223	6759	7934
50°	5195	5662	6611
55°	4411	4859	5459
60°	3770	4213	4357
65°	3002	3543	2814
70°	2660	2765	1718
75°	2463	2242	1052
80°	2269	2062	909
85°	2054	1895	741



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	162.4	1.8
10°-20°	422.3	4.8
20°-30°	547.0	6.2
30°-40°	535.6	6.0
40°-50°	410.0	4.6
50°-60°	273.2	3.1
60°-70°	149.1	1.7
70°-80°	62.1	0.7
80°-90°	17.6	0.2
90°-100°	500.6	5.6
100°-110°	1209.9	13.6
110°-120°	1290.5	14.6
120°-130°	1045.2	11.8
130°-140°	809.2	9.1
140°-150°	617.3	7.0
150°-160°	446.9	5.0
160°-170°	275.2	3.1
170°-180°	93.2	1.1
0°-30°	1131.6	12.8
0°-40°	1667.3	18.8
0°-60°	2350.5	26.5
0°-90°	2579.2	29.1
90°-120°	3001.0	33.8
90°-150°	5472.7	61.7
90°-180°	6288.0	70.9
0°-180°	8867.2	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1770	1770	1770	1770	1770	
5°	1741	1724	1735	1739	1745	162
15°	1473	1467	1507	1548	1574	411
25°	1125	1128	1187	1238	1293	518
35°	795	799	853	910	975	494
45°	477	486	518	557	608	372
55°	274	286	302	314	339	249
65°	138	149	162	142	129	143
75°	69	69	63	43	30	74
85°	19	19	18	12	7	21
90°	0	0	0	0	0	3
95°	49	250	858	558	391	55
105°	193	334	1454	1882	1857	204
115°	354	452	1168	2215	2470	350
125°	504	580	1014	1762	2069	450
135°	619	692	973	1389	1598	478
145°	732	787	954	1181	1273	458
155°	839	875	967	1046	1084	387
165°	928	942	979	994	1008	262
175°	981	977	981	973	971	93
180°	971	971	971	971	971	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1770.0	1770.0	1770.0	1770.0	1770.0
2.5°	1774.4	1758.6	1762.6	1762.5	1757.6
5°	1741.3	1723.8	1735.1	1739.1	1745.2
7.5°	1676.7	1663.5	1684.0	1699.2	1711.5
10°	1626.3	1615.0	1641.1	1663.2	1679.2
12.5°	1567.9	1558.4	1590.8	1620.4	1641.3
15°	1472.6	1467.2	1506.7	1547.7	1574.3
17.5°	1370.5	1367.9	1413.2	1461.1	1495.1
20°	1300.9	1300.2	1349.8	1399.7	1439.2
22.5°	1230.7	1232.4	1284.6	1336.4	1381.4
25°	1125.4	1128.4	1186.7	1238.5	1293.2
27.5°	1028.0	1029.4	1089.7	1144.3	1202.6
30°	961.5	965.3	1024.4	1080.9	1141.7
32.5°	895.0	899.4	957.3	1015.7	1077.7
35°	795.3	799.1	852.8	910.2	974.7
37.5°	692.5	697.6	745.3	799.5	863.0
40°	626.0	633.6	675.7	726.8	789.1
42.5°	562.0	571.4	610.5	659.0	715.2
45°	476.9	486.0	518.0	557.3	608.1
47.5°	403.6	414.0	438.7	472.4	515.9
50°	361.9	371.8	394.5	419.6	460.6
52.5°	325.3	335.1	355.4	374.7	409.6
55°	274.2	285.6	302.1	313.6	339.4
57.5°	232.2	243.2	256.3	261.5	277.1
60°	204.3	216.4	228.3	227.8	236.1
62.5°	178.8	189.1	201.0	192.8	193.2
65°	137.5	148.9	162.3	141.8	128.9
67.5°	111.1	113.5	127.4	98.9	83.6
70°	98.6	98.6	102.5	76.6	63.7
72.5°	86.8	86.8	83.3	62.3	48.8
75°	69.1	69.1	62.9	43.2	29.5
77.5°	53.3	52.7	48.2	32.2	21.4
80°	42.7	42.7	38.8	25.4	17.1
82.5°	33.4	33.4	30.1	19.9	12.7
85°	19.4	19.4	17.9	11.5	7.0
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°	16.5	135.5	319.2	155.2	105.3
95°	49.4	250.5	857.7	557.7	390.8
97.5°	87.6	277.5	1129.6	1088.3	934.2
100°	117.2	294.2	1279.4	1350.6	1223.9
102.5°	145.2	309.3	1378.1	1568.9	1493.7
105°	193.3	334.1	1454.2	1881.5	1857.4
107.5°	240.7	363.3	1409.4	2132.2	2189.0
110°	273.6	388.2	1337.0	2240.3	2346.9

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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	306.5	413.1	1272.8	2266.7	2448.9
115°	353.8	452.3	1168.3	2214.9	2470.3
117.5°	400.7	493.6	1107.0	2095.8	2395.1
120°	431.9	518.4	1067.5	2002.3	2316.1
122.5°	464.9	544.9	1042.8	1906.8	2215.7
125°	503.9	580.4	1014.1	1761.5	2069.2
127.5°	542.6	614.6	993.9	1638.5	1908.8
130°	565.6	636.0	987.3	1552.8	1818.3
132.5°	587.0	660.6	977.4	1491.0	1716.3
135°	619.1	691.5	972.9	1389.0	1598.2
137.5°	649.6	722.4	958.5	1320.0	1477.7
140°	672.6	739.0	958.5	1270.3	1415.1
142.5°	695.6	762.0	950.3	1227.0	1349.3
145°	732.3	786.6	954.4	1180.7	1273.2
147.5°	766.4	819.1	951.9	1127.3	1203.7
150°	787.8	834.0	958.5	1103.9	1164.2
152.5°	810.8	855.5	956.9	1079.0	1132.9
155°	839.2	875.4	966.7	1045.8	1084.0
157.5°	873.4	904.3	964.7	1033.1	1055.6
160°	886.5	912.7	972.9	1016.5	1032.6
162.5°	907.9	930.8	969.6	1011.4	1021.0
165°	927.7	941.7	979.1	993.8	1007.9
167.5°	951.9	961.2	976.6	992.7	993.1
170°	958.5	964.5	983.2	981.4	991.4
172.5°	970.0	974.5	978.3	982.6	976.6
175°	981.1	977.1	981.1	972.9	970.9
177.5°	979.1	979.1	975.8	972.3	964.3
180°	970.9	970.9	970.9	970.9	970.9

(END OF REPORT)