

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: P522051

Luminaire Tested: **SQ4-WB-150U-100D-93050-1D-UNV-STD-W-4 (3500K)**

Issue Date: 5/5/2021

Test Information

Test Method: LM-79-08
Report Number: P522051
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-100D-93050-1D-UNV-STD-W-4 (3500K)
Description: CORELITE SQ4 SUSPENDED LED LUMINAIRE WITH WHITE BAFFLE
DOWNLIGHT 1000 LUMENS PER FOOT
UPLIGHT 1500 LUMENS PER FOOT
Light Source: 3000K/5000K CCT, 90 CRI LEDS, TUNED TO 3500K CCT
Ballast/Driver: ELECTRONIC DRIVER

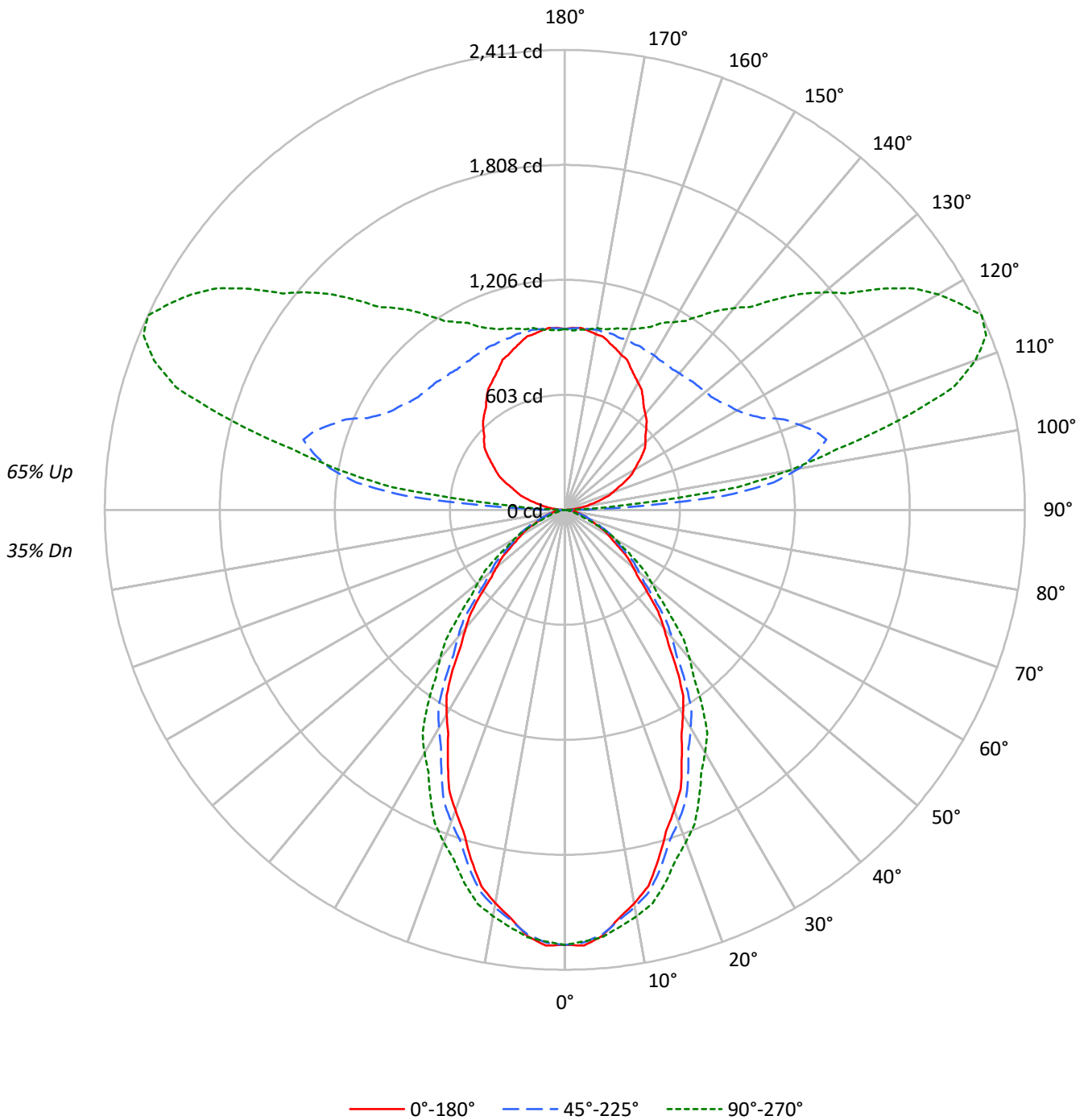
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 9459.4 lumens
Efficiency: N/A
Efficacy: 101.2 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): 93.5
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				
RC	80					70					50					30				
RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10	0		
RCR																				
0	104	104	104	104	94	94	94	94	75	75	75	58	58	58	42	42	42	35		
1	95	91	88	85	86	83	80	77	67	65	63	52	51	50	39	38	37	31		
2	87	81	75	70	79	73	69	65	60	56	54	47	45	43	35	34	33	27		
3	80	72	65	60	72	65	60	55	53	49	46	42	40	37	32	30	29	24		
4	74	64	57	51	67	58	52	47	48	43	40	38	35	33	29	27	26	22		
5	68	57	50	44	62	52	46	41	43	39	35	35	31	29	27	25	23	19		
6	63	52	44	39	57	47	41	36	39	34	31	32	28	26	24	22	21	18		
7	58	47	40	34	53	43	37	32	36	31	28	29	26	23	23	20	19	16		
8	54	43	36	31	49	39	33	29	33	28	25	27	23	21	21	19	17	15		
9	51	39	32	27	46	36	30	26	30	26	22	25	21	19	20	17	16	13		
10	47	36	29	25	43	33	27	23	28	23	20	23	20	17	18	16	14	12		

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	21040	21040	21040
5°	20778	20704	20824
10°	19631	19809	20268
15°	18122	18543	19374
20°	16456	17076	18205
25°	14761	15565	16961
30°	13198	14062	15671
35°	11541	12375	14144
40°	9713	10485	12245
45°	8017	8708	10223
50°	6693	7296	8517
55°	5681	6262	7034
60°	4857	5429	5613
65°	3866	4565	3626
70°	3429	3563	2215
75°	3176	2891	1355
80°	2922	2657	1169
85°	2646	2435	953



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	209.2	2.2
10°-20°	544.1	5.8
20°-30°	704.7	7.5
30°-40°	690.1	7.3
40°-50°	528.2	5.6
50°-60°	352.0	3.7
60°-70°	192.1	2.0
70°-80°	80.0	0.8
80°-90°	22.7	0.2
90°-100°	488.5	5.2
100°-110°	1180.8	12.5
110°-120°	1259.3	13.3
120°-130°	1020.0	10.8
130°-140°	789.7	8.3
140°-150°	602.4	6.4
150°-160°	436.1	4.6
160°-170°	268.6	2.8
170°-180°	90.9	1.0
0°-30°	1458.0	15.4
0°-40°	2148.1	22.7
0°-60°	3028.3	32.0
0°-90°	3323.1	35.1
90°-120°	2928.6	31.0
90°-150°	5340.7	56.5
90°-180°	6136.0	64.9
0°-180°	9459.4	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2280	2280	2280	2280	2280	
5°	2244	2221	2236	2241	2248	209
15°	1897	1890	1941	1994	2028	530
25°	1450	1454	1529	1596	1666	667
35°	1025	1030	1099	1173	1256	637
45°	614	626	667	718	784	479
55°	353	368	389	404	437	320
65°	177	192	209	183	166	184
75°	89	89	81	56	38	95
85°	25	25	23	15	9	27
90°	0	0	0	0	0	3
95°	48	244	837	544	381	54
105°	189	326	1419	1836	1813	199
115°	345	441	1140	2162	2411	341
125°	492	566	990	1719	2019	439
135°	604	675	949	1356	1560	466
145°	715	768	931	1152	1242	447
155°	819	854	943	1020	1058	378
165°	905	919	956	970	984	255
175°	958	954	958	949	947	90
180°	947	947	947	947	947	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2280.5	2280.5	2280.5	2280.5	2280.5
2.5°	2286.1	2265.8	2270.9	2270.8	2264.5
5°	2243.5	2221.0	2235.5	2240.7	2248.5
7.5°	2160.2	2143.2	2169.6	2189.2	2205.1
10°	2095.4	2080.7	2114.4	2142.9	2163.4
12.5°	2020.1	2007.8	2049.6	2087.8	2114.6
15°	1897.3	1890.4	1941.3	1994.1	2028.3
17.5°	1765.8	1762.4	1820.8	1882.4	1926.3
20°	1676.1	1675.1	1739.2	1803.4	1854.2
22.5°	1585.7	1587.8	1655.1	1721.9	1779.8
25°	1450.0	1453.9	1529.0	1595.7	1666.1
27.5°	1324.5	1326.2	1403.9	1474.3	1549.4
30°	1238.8	1243.7	1319.9	1392.7	1471.0
32.5°	1153.2	1158.8	1233.4	1308.7	1388.5
35°	1024.7	1029.6	1098.7	1172.7	1255.8
37.5°	892.2	898.8	960.2	1030.1	1111.9
40°	806.5	816.3	870.6	936.4	1016.7
42.5°	724.1	736.2	786.5	849.0	921.4
45°	614.4	626.1	667.4	718.0	783.5
47.5°	519.9	533.4	565.2	608.7	664.6
50°	466.3	479.0	508.3	540.6	593.4
52.5°	419.1	431.8	457.9	482.7	527.8
55°	353.2	367.9	389.3	404.0	437.3
57.5°	299.2	313.3	330.2	336.9	357.0
60°	263.2	278.8	294.2	293.4	304.2
62.5°	230.4	243.7	259.0	248.4	249.0
65°	177.1	191.8	209.1	182.7	166.1
67.5°	143.1	146.2	164.1	127.4	107.7
70°	127.1	127.1	132.1	98.7	82.1
72.5°	111.9	111.9	107.3	80.3	62.8
75°	89.1	89.1	81.1	55.6	38.0
77.5°	68.6	67.9	62.0	41.5	27.6
80°	55.0	55.0	50.0	32.8	22.0
82.5°	43.0	43.0	38.8	25.6	16.4
85°	25.0	25.0	23.0	14.9	9.0
87.5°	8.8	8.8	8.0	4.8	4.0
90°	0.0	0.0	0.0	0.0	0.0
92.5°	16.1	132.2	311.5	151.4	102.8
95°	48.2	244.4	837.0	544.3	381.4
97.5°	85.5	270.8	1102.4	1062.0	911.7
100°	114.4	287.1	1248.5	1318.0	1194.3
102.5°	141.7	301.9	1344.9	1531.1	1457.7
105°	188.7	326.1	1419.1	1836.1	1812.6
107.5°	234.9	354.6	1375.4	2080.8	2136.1
110°	267.0	378.8	1304.7	2186.3	2290.3



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	299.1	403.1	1242.1	2212.0	2389.9
115°	345.3	441.4	1140.1	2161.5	2410.7
117.5°	391.0	481.7	1080.3	2045.2	2337.3
120°	421.5	505.9	1041.8	1954.0	2260.2
122.5°	453.6	531.8	1017.7	1860.8	2162.2
125°	491.8	566.4	989.6	1719.0	2019.3
127.5°	529.5	599.8	969.9	1599.0	1862.7
130°	552.0	620.7	963.5	1515.4	1774.4
132.5°	572.9	644.7	953.9	1455.0	1674.9
135°	604.2	674.8	949.4	1355.5	1559.6
137.5°	633.9	704.9	935.4	1288.2	1442.0
140°	656.4	721.1	935.4	1239.7	1381.0
142.5°	678.9	743.6	927.4	1197.4	1316.8
145°	714.6	767.6	931.4	1152.2	1242.5
147.5°	747.9	799.3	929.0	1100.1	1174.7
150°	768.8	813.9	935.4	1077.2	1136.1
152.5°	791.3	834.8	933.8	1053.0	1105.6
155°	819.0	854.3	943.4	1020.5	1057.8
157.5°	852.3	882.5	941.4	1008.1	1030.1
160°	865.1	890.6	949.4	991.9	1007.7
162.5°	886.0	908.4	946.2	987.0	996.4
165°	905.3	919.0	955.5	969.8	983.6
167.5°	929.0	938.0	953.1	968.7	969.1
170°	935.4	941.3	959.5	957.7	967.5
172.5°	946.6	950.9	954.7	958.9	953.1
175°	957.5	953.5	957.5	949.4	947.4
177.5°	955.5	955.5	952.2	948.9	941.0
180°	947.4	947.4	947.4	947.4	947.4

(END OF REPORT)