

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: P522053

Luminaire Tested: **SQ4-WB-150U-100D-93050-1D-UNV-STD-W-4 (4500K)**

Issue Date: 5/5/2021

Test Information

Test Method: LM-79-08
Report Number: P522053
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 (4500K)
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 4500K CCT
Ballast/Driver: ELECTRONIC DRIVER

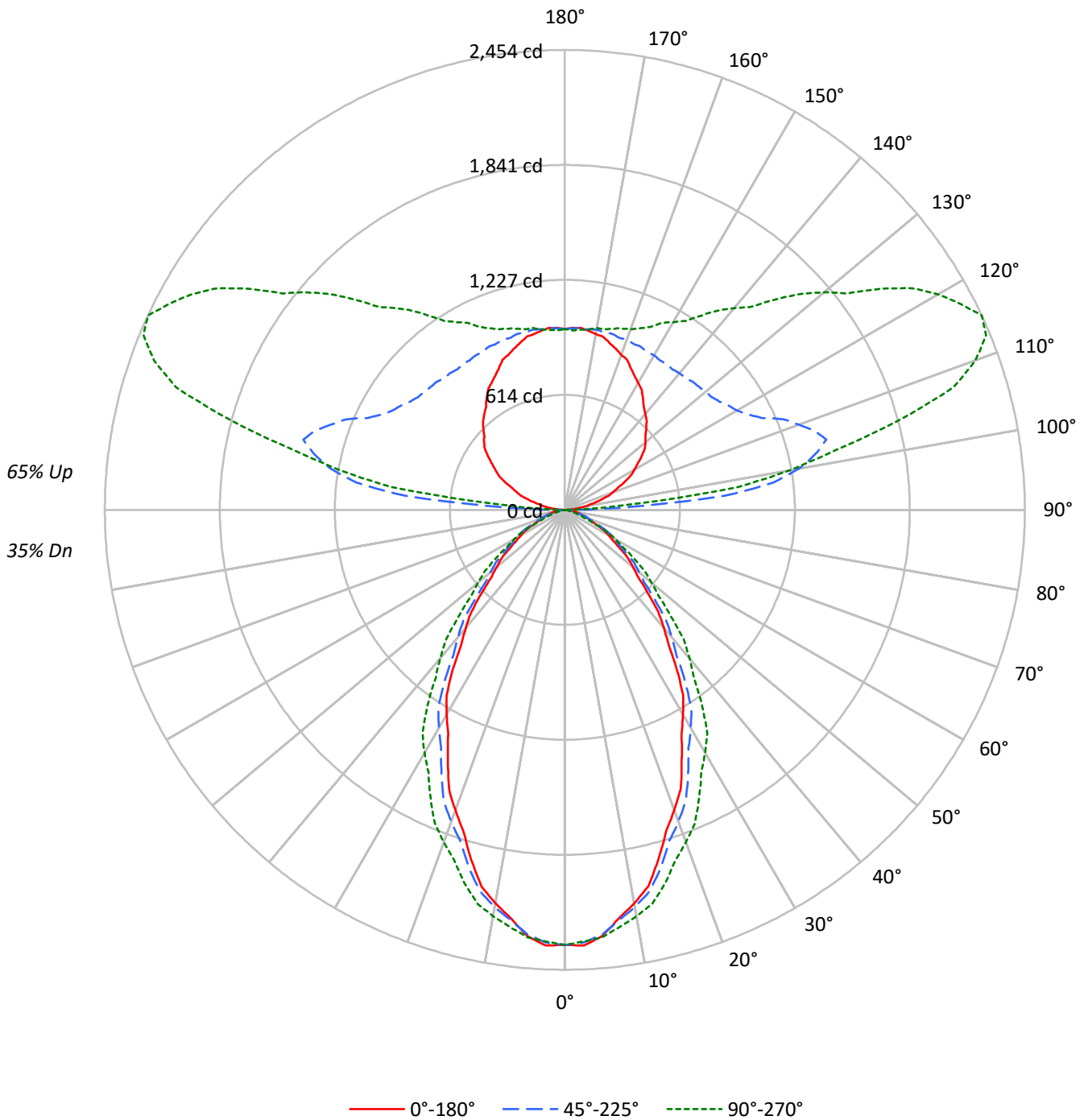
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 9627.7 lumens
Efficiency: N/A
Efficacy: 103.2 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): 93.3
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	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°	21415	21415	21415
5°	21148	21072	21195
10°	19980	20161	20629
15°	18444	18872	19718
20°	16749	17379	18529
25°	15023	15842	17262
30°	13433	14311	15949
35°	11746	12596	14397
40°	9887	10672	12463
45°	8159	8863	10406
50°	6812	7426	8668
55°	5783	6373	7160
60°	4943	5525	5713
65°	3936	4648	3692
70°	3488	3626	2252
75°	3230	2941	1380
80°	2975	2704	1190
85°	2699	2477	974



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	212.9	2.2
10°-20°	553.8	5.8
20°-30°	717.3	7.5
30°-40°	702.4	7.3
40°-50°	537.6	5.6
50°-60°	358.3	3.7
60°-70°	195.5	2.0
70°-80°	81.5	0.8
80°-90°	23.1	0.2
90°-100°	497.2	5.2
100°-110°	1201.7	12.5
110°-120°	1281.7	13.3
120°-130°	1038.1	10.8
130°-140°	803.7	8.3
140°-150°	613.1	6.4
150°-160°	443.8	4.6
160°-170°	273.4	2.8
170°-180°	92.6	1.0
0°-30°	1483.9	15.4
0°-40°	2186.3	22.7
0°-60°	3082.2	32.0
0°-90°	3382.2	35.1
90°-120°	2980.7	31.0
90°-150°	5435.7	56.5
90°-180°	6245.0	64.9
0°-180°	9627.7	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2321	2321	2321	2321	2321	
5°	2283	2260	2275	2280	2288	212
15°	1931	1924	1976	2030	2064	539
25°	1476	1480	1556	1624	1696	679
35°	1043	1048	1118	1194	1278	648
45°	625	637	679	731	798	488
55°	360	374	396	411	445	326
65°	180	195	213	186	169	187
75°	91	91	82	57	39	97
85°	26	26	23	15	9	28
90°	0	0	0	0	0	3
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°	2321.1	2321.1	2321.1	2321.1	2321.1
2.5°	2326.8	2306.1	2311.3	2311.1	2304.8
5°	2283.4	2260.5	2275.2	2280.5	2288.5
7.5°	2198.7	2181.3	2208.2	2228.1	2244.3
10°	2132.7	2117.7	2152.0	2181.0	2201.9
12.5°	2056.1	2043.5	2086.0	2124.9	2152.2
15°	1931.0	1924.0	1975.8	2029.6	2064.4
17.5°	1797.2	1793.8	1853.2	1915.9	1960.5
20°	1705.9	1704.9	1770.1	1835.4	1887.2
22.5°	1613.9	1616.0	1684.5	1752.5	1811.4
25°	1475.7	1479.7	1556.2	1624.0	1695.7
27.5°	1348.0	1349.8	1428.9	1500.5	1577.0
30°	1260.9	1265.8	1343.3	1417.5	1497.1
32.5°	1173.7	1179.4	1255.4	1332.0	1413.2
35°	1042.9	1047.9	1118.3	1193.5	1278.2
37.5°	908.1	914.8	977.3	1048.5	1131.7
40°	820.9	830.8	886.1	953.1	1034.8
42.5°	737.0	749.3	800.5	864.1	937.8
45°	625.3	637.3	679.3	730.7	797.5
47.5°	529.2	542.9	575.2	619.5	676.5
50°	474.6	487.5	517.4	550.2	603.9
52.5°	426.5	439.5	466.0	491.3	537.1
55°	359.5	374.5	396.2	411.2	445.1
57.5°	304.5	318.9	336.1	342.9	363.4
60°	267.9	283.8	299.4	298.7	309.6
62.5°	234.4	248.0	263.6	252.8	253.4
65°	180.3	195.2	212.9	186.0	169.1
67.5°	145.6	148.8	167.0	129.7	109.6
70°	129.3	129.3	134.4	100.4	83.5
72.5°	113.9	113.9	109.2	81.7	64.0
75°	90.6	90.6	82.5	56.6	38.7
77.5°	69.9	69.1	63.1	42.3	28.1
80°	56.0	56.0	50.9	33.4	22.4
82.5°	43.8	43.8	39.5	26.1	16.7
85°	25.5	25.5	23.4	15.1	9.2
87.5°	9.0	9.0	8.1	4.9	4.1
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)