

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: P522052

Luminaire Tested: **SQ4-WB-150U-100D-93050-1D-UNV-STD-W-4 (4000K)**

Issue Date: 5/5/2021

Test Information

Test Method: LM-79-08
Report Number: P522052
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 (4000K)
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 4000K CCT
Ballast/Driver: ELECTRONIC DRIVER

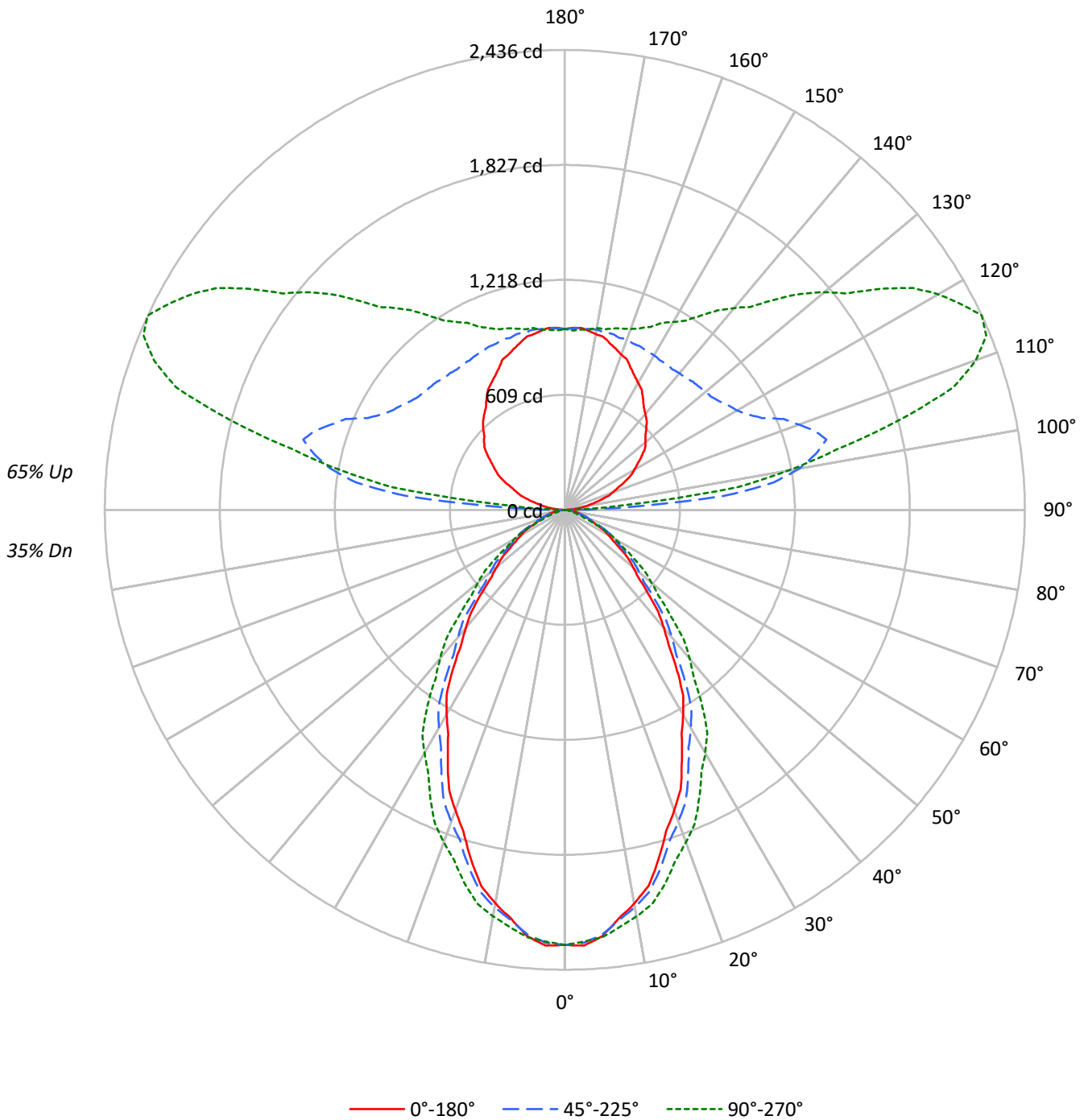
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 9560.1 lumens
Efficiency: N/A
Efficacy: 102.2 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					10				
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°	21265	21265	21265
5°	20999	20924	21046
10°	19840	20020	20484
15°	18315	18739	19580
20°	16632	17258	18400
25°	14918	15731	17141
30°	13338	14211	15837
35°	11664	12507	14295
40°	9817	10596	12375
45°	8101	8801	10333
50°	6765	7373	8608
55°	5742	6328	7108
60°	4908	5486	5672
65°	3908	4615	3665
70°	3464	3601	2236
75°	3208	2920	1369
80°	2954	2688	1180
85°	2678	2467	963



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	211.4	2.2
10°-20°	549.9	5.8
20°-30°	712.2	7.5
30°-40°	697.5	7.3
40°-50°	533.9	5.6
50°-60°	355.7	3.7
60°-70°	194.1	2.0
70°-80°	80.9	0.8
80°-90°	22.9	0.2
90°-100°	493.7	5.2
100°-110°	1193.3	12.5
110°-120°	1272.7	13.3
120°-130°	1030.8	10.8
130°-140°	798.1	8.3
140°-150°	608.8	6.4
150°-160°	440.7	4.6
160°-170°	271.4	2.8
170°-180°	91.9	1.0
0°-30°	1473.5	15.4
0°-40°	2171.0	22.7
0°-60°	3060.6	32.0
0°-90°	3358.5	35.1
90°-120°	2959.8	31.0
90°-150°	5397.5	56.5
90°-180°	6202.0	64.9
0°-180°	9560.1	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2305	2305	2305	2305	2305	
5°	2267	2245	2259	2264	2272	211
15°	1918	1910	1962	2015	2050	535
25°	1465	1469	1545	1613	1684	674
35°	1036	1040	1110	1185	1269	644
45°	621	633	674	726	792	484
55°	357	372	393	408	442	324
65°	179	194	211	185	168	186
75°	90	90	82	56	38	96
85°	25	25	23	15	9	27
90°	0	0	0	0	0	3
95°	49	247	846	550	385	55
105°	191	330	1434	1856	1832	201
115°	349	446	1152	2184	2436	345
125°	497	572	1000	1737	2041	443
135°	611	682	960	1370	1576	471
145°	722	776	941	1164	1256	451
155°	828	863	954	1031	1069	382
165°	915	929	966	980	994	258
175°	968	964	968	960	958	91
180°	958	958	958	958	958	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2304.8	2304.8	2304.8	2304.8	2304.8
2.5°	2310.4	2289.9	2295.1	2294.9	2288.6
5°	2267.4	2244.6	2259.3	2264.5	2272.4
7.5°	2183.2	2166.0	2192.7	2212.5	2228.5
10°	2117.7	2102.9	2136.9	2165.7	2186.5
12.5°	2041.6	2029.2	2071.4	2110.0	2137.1
15°	1917.5	1910.5	1961.9	2015.3	2049.9
17.5°	1784.6	1781.2	1840.2	1902.5	1946.8
20°	1694.0	1693.0	1757.7	1822.5	1874.0
22.5°	1602.5	1604.7	1672.7	1740.2	1798.7
25°	1465.4	1469.3	1545.3	1612.6	1683.8
27.5°	1338.6	1340.4	1418.9	1490.0	1565.9
30°	1252.0	1257.0	1333.9	1407.5	1486.6
32.5°	1165.4	1171.2	1246.5	1322.6	1403.3
35°	1035.6	1040.5	1110.4	1185.1	1269.2
37.5°	901.7	908.4	970.5	1041.1	1123.8
40°	815.1	825.0	879.8	946.4	1027.5
42.5°	731.8	744.0	794.9	858.0	931.2
45°	620.9	632.8	674.5	725.6	791.9
47.5°	525.5	539.1	571.2	615.2	671.7
50°	471.3	484.1	513.7	546.3	599.7
52.5°	423.5	436.4	462.8	487.9	533.4
55°	357.0	371.8	393.4	408.3	441.9
57.5°	302.4	316.6	333.7	340.5	360.8
60°	266.0	281.8	297.3	296.6	307.4
62.5°	232.8	246.3	261.7	251.0	251.6
65°	179.0	193.8	211.4	184.7	167.9
67.5°	144.6	147.8	165.9	128.8	108.8
70°	128.4	128.4	133.5	99.7	82.9
72.5°	113.1	113.1	108.4	81.1	63.5
75°	90.0	90.0	81.9	56.2	38.4
77.5°	69.4	68.6	62.7	42.0	27.9
80°	55.6	55.6	50.6	33.1	22.2
82.5°	43.5	43.5	39.2	25.9	16.6
85°	25.3	25.3	23.3	15.0	9.1
87.5°	8.9	8.9	8.1	4.8	4.0
90°	0.0	0.0	0.0	0.0	0.0
92.5°	16.2	133.7	314.8	153.1	103.9
95°	48.7	247.0	845.9	550.1	385.4
97.5°	86.4	273.7	1114.1	1073.3	921.4
100°	115.6	290.2	1261.8	1332.0	1207.0
102.5°	143.2	305.1	1359.2	1547.4	1473.2
105°	190.7	329.5	1434.2	1855.7	1831.9
107.5°	237.3	358.3	1390.0	2102.9	2158.9
110°	269.8	382.9	1318.6	2209.5	2314.7



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	302.3	407.4	1255.3	2235.6	2415.3
115°	348.9	446.1	1152.3	2184.5	2436.4
117.5°	395.2	486.8	1091.8	2067.0	2362.1
120°	426.0	511.3	1052.9	1974.8	2284.2
122.5°	458.5	537.4	1028.5	1880.6	2185.2
125°	497.0	572.4	1000.1	1737.3	2040.8
127.5°	535.2	606.2	980.2	1616.0	1882.6
130°	557.9	627.3	973.7	1531.5	1793.3
132.5°	579.0	651.6	964.0	1470.5	1692.7
135°	610.6	682.0	959.5	1370.0	1576.2
137.5°	640.6	712.4	945.3	1301.9	1457.4
140°	663.4	728.8	945.3	1252.9	1395.7
142.5°	686.1	751.5	937.2	1210.2	1330.8
145°	722.2	775.7	941.3	1164.5	1255.7
147.5°	755.9	807.8	938.9	1111.8	1187.2
150°	777.0	822.6	945.3	1088.7	1148.2
152.5°	799.7	843.7	943.7	1064.2	1117.4
155°	827.7	863.4	953.5	1031.4	1069.1
157.5°	861.4	891.9	951.4	1018.9	1041.1
160°	874.3	900.1	959.5	1002.5	1018.4
162.5°	895.4	918.1	956.3	997.5	1007.0
165°	914.9	928.8	965.6	980.1	994.0
167.5°	938.9	948.0	963.2	979.0	979.4
170°	945.3	951.3	969.7	967.9	977.8
172.5°	956.7	961.1	964.8	969.1	963.2
175°	967.7	963.7	967.7	959.5	957.5
177.5°	965.6	965.6	962.4	959.0	951.0
180°	957.5	957.5	957.5	957.5	957.5

(END OF REPORT)