

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: P521844

Luminaire Tested: **SQ4-WB-075U-100D-93050-1D-UNV-STD-W-4 (4000K)**

Issue Date: 5/5/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P521844  
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-100D-93050-1D-UNV-STD-W-4 (4000K)  
Description: CORELITE SQ4 SUSPENDED LED LUMINAIRE WITH WHITE BAFFLE  
DOWNLIGHT 1000 LUMENS PER FOOT  
UPLIGHT 750 LUMENS PER FOOT  
Light Source: 3000K/5000K CCT, 90 CRI LEDS, TUNED TO 4000K CCT  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

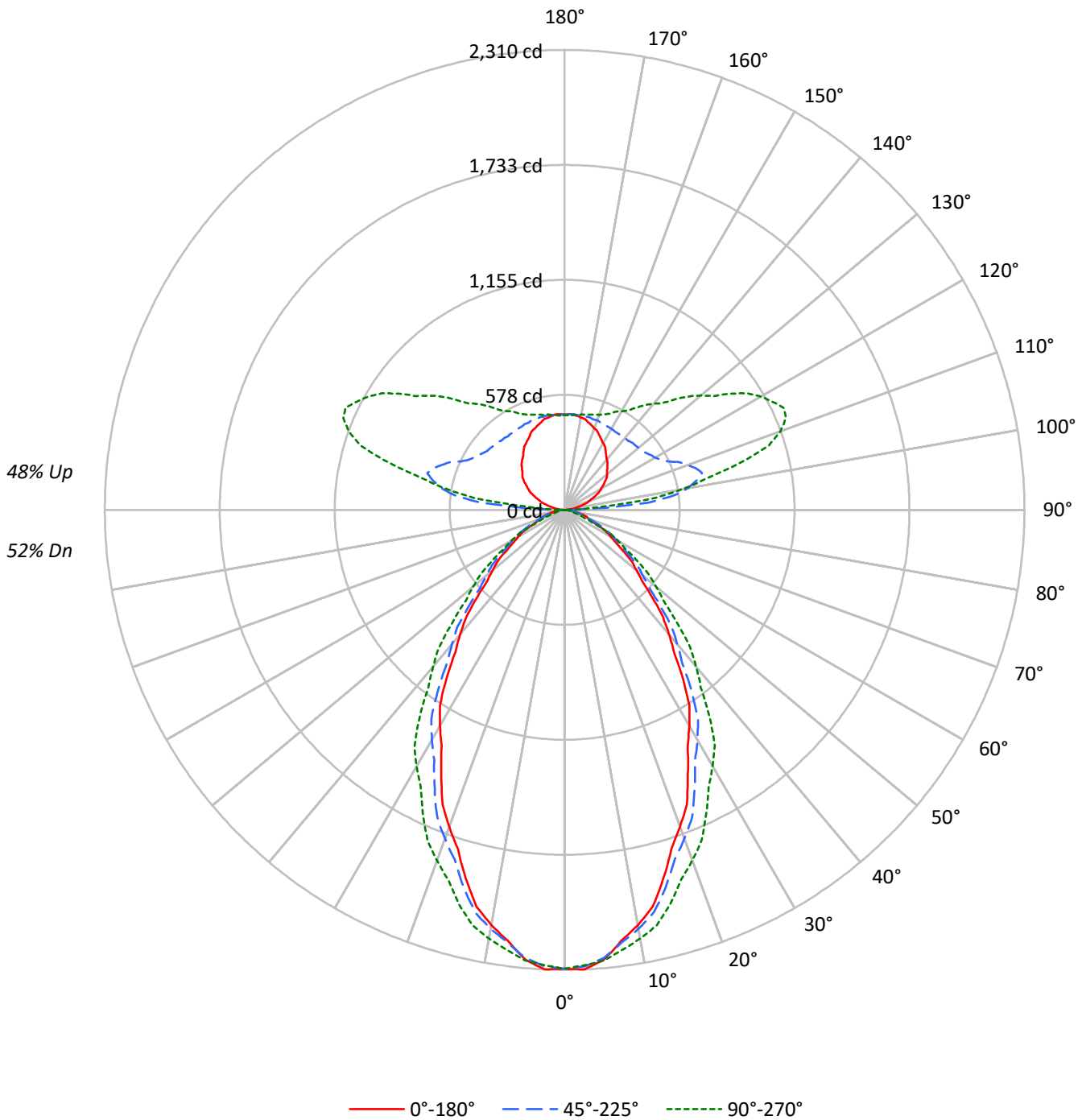
Lumens per Lamp: N/A  
Luminaire Lumens: 6448.1 lumens  
Efficiency: N/A  
Efficacy: 97.6 lumens/watt  
Spacing Criteria (0/90/45): 0.89 / 1 / 1.02  
Luminous Opening: Rectangular (W 0.29' x L: 4' x H: 0')  
CIE Type: General Diffuse

Input Watts (W): 66.1  
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	108	108	108	108	100	100	100	100	84	84	84	71	71	71	58	58	58	52		
1	99	96	92	89	92	89	86	83	76	74	72	64	63	61	53	52	51	46		
2	92	85	79	75	85	79	74	70	68	64	61	58	55	53	48	47	45	41		
3	84	76	69	64	78	71	65	60	61	57	53	52	49	46	44	42	40	36		
4	78	68	61	55	72	64	57	52	55	50	47	47	44	41	40	38	36	32		
5	72	61	54	48	67	57	51	46	50	45	41	43	39	36	37	34	32	29		
6	67	56	48	43	62	52	45	41	46	40	37	40	36	33	34	31	29	26		
7	62	51	43	38	58	48	41	36	42	37	33	36	32	29	31	28	26	24		
8	58	46	39	34	54	44	37	33	39	33	30	34	30	27	29	26	24	22		
9	54	43	36	31	50	40	34	30	36	31	27	31	27	24	27	24	22	20		
10	51	39	33	28	47	37	31	27	33	28	25	29	25	22	25	22	20	18		

**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	3.3
10°-20°	549.9	8.5
20°-30°	712.2	11.0
30°-40°	697.5	10.8
40°-50°	533.9	8.3
50°-60°	355.7	5.5
60°-70°	194.1	3.0
70°-80°	80.9	1.3
80°-90°	22.9	0.4
90°-100°	246.0	3.8
100°-110°	594.5	9.2
110°-120°	634.1	9.8
120°-130°	513.5	8.0
130°-140°	397.6	6.2
140°-150°	303.3	4.7
150°-160°	219.6	3.4
160°-170°	135.2	2.1
170°-180°	45.8	0.7
0°-30°	1473.5	22.9
0°-40°	2171.0	33.7
0°-60°	3060.6	47.5
0°-90°	3358.5	52.1
90°-120°	1474.5	22.9
90°-150°	2689.0	41.7
90°-180°	3090.0	47.9
0°-180°	6448.1	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	2
95°	24	123	421	274	192	27
105°	95	164	714	924	913	100
115°	174	222	574	1088	1214	172
125°	248	285	498	866	1017	221
135°	304	340	478	682	785	235
145°	360	386	469	580	626	225
155°	412	430	475	514	533	190
165°	456	463	481	488	495	129
175°	482	480	482	478	477	46
180°	477	477	477	477	477	

TEST NUMBER: P521844

CATALOG NUMBER: SQ4-WB-075U-100D-93050-1D-UNV-STD-W-4 (4000K)

**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°	8.1	66.6	156.9	76.3	51.7
95°	24.3	123.1	421.4	274.0	192.0
97.5°	43.1	136.3	555.0	534.7	459.0
100°	57.6	144.6	628.6	663.6	601.3
102.5°	71.4	152.0	677.1	770.9	733.9
105°	95.0	164.2	714.5	924.5	912.6
107.5°	118.2	178.5	692.5	1047.7	1075.5
110°	134.4	190.7	656.9	1100.8	1153.1

TEST NUMBER: P521844

CATALOG NUMBER: SQ4-WB-075U-100D-93050-1D-UNV-STD-W-4 (4000K)

**CANDELA DISTRIBUTION (continued):**

	0°	22.5°	45°	67.5°	90°
112.5°	150.6	203.0	625.4	1113.7	1203.3
115°	173.8	222.3	574.0	1088.3	1213.8
117.5°	196.9	242.5	543.9	1029.8	1176.8
120°	212.2	254.7	524.5	983.8	1138.0
122.5°	228.4	267.7	512.4	936.9	1088.7
125°	247.6	285.2	498.2	865.5	1016.7
127.5°	266.6	302.0	488.3	805.1	937.9
130°	277.9	312.5	485.1	763.0	893.4
132.5°	288.4	324.6	480.3	732.6	843.3
135°	304.2	339.8	478.0	682.5	785.3
137.5°	319.2	354.9	471.0	648.6	726.0
140°	330.5	363.1	471.0	624.2	695.3
142.5°	341.8	374.4	466.9	602.9	663.0
145°	359.8	386.5	468.9	580.1	625.6
147.5°	376.6	402.5	467.7	553.9	591.4
150°	387.1	409.8	471.0	542.4	572.0
152.5°	398.4	420.3	470.2	530.2	556.7
155°	412.3	430.1	475.0	513.8	532.6
157.5°	429.1	444.3	474.0	507.6	518.7
160°	435.6	448.4	478.0	499.4	507.3
162.5°	446.1	457.4	476.4	496.9	501.7
165°	455.8	462.7	481.1	488.3	495.2
167.5°	467.7	472.3	479.9	487.7	487.9
170°	471.0	473.9	483.1	482.2	487.1
172.5°	476.6	478.8	480.7	482.8	479.9
175°	482.1	480.1	482.1	478.0	477.0
177.5°	481.1	481.1	479.4	477.7	473.8
180°	477.0	477.0	477.0	477.0	477.0

(END OF REPORT)