

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: P521845

Luminaire Tested: **SQ4-WB-075U-100D-93050-1D-UNV-STD-W-4 (4500K)**

Issue Date: 5/5/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P521845  
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 (4500K)  
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 4500K CCT  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

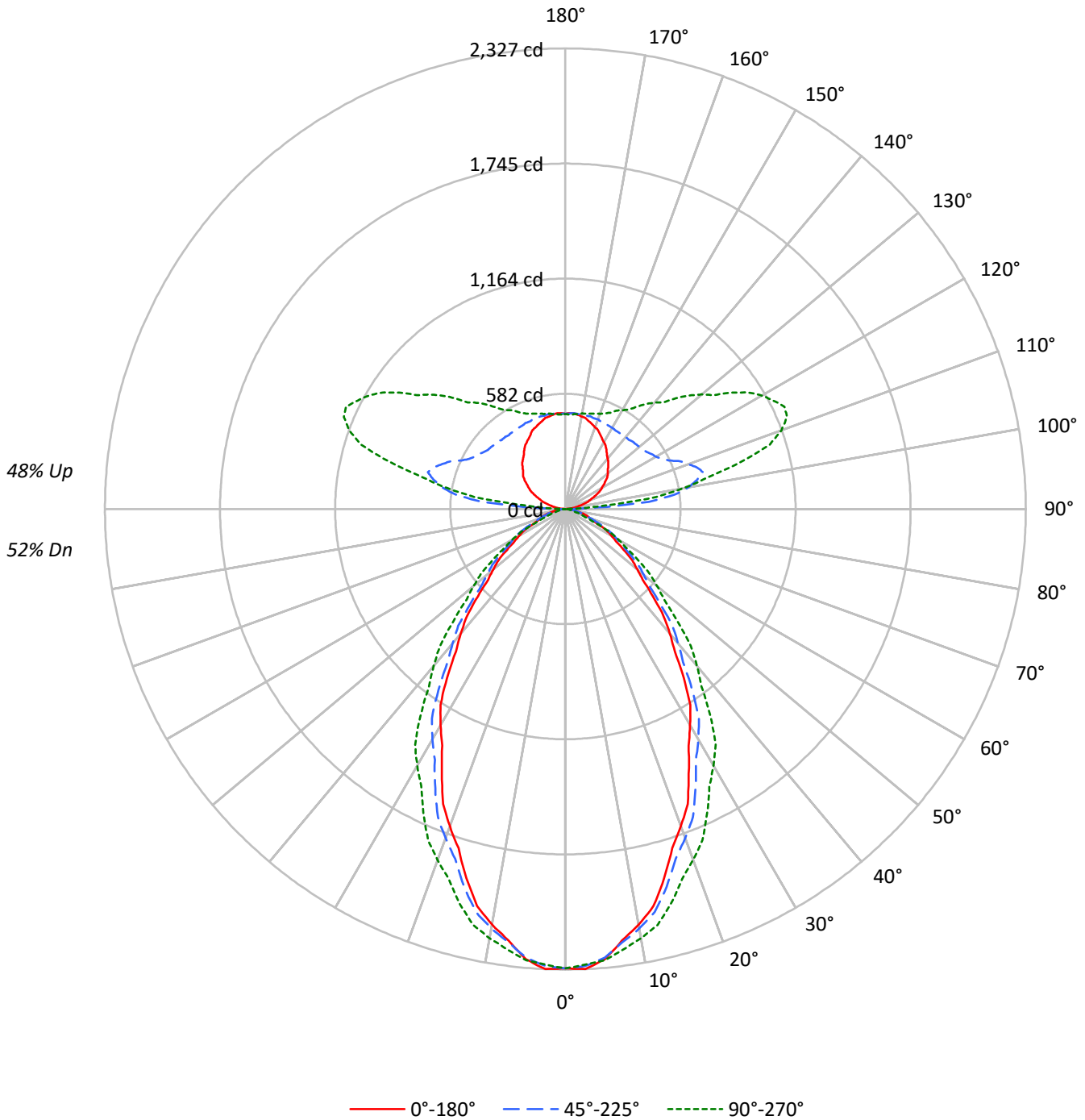
Lumens per Lamp: N/A  
Luminaire Lumens: 6493.7 lumens  
Efficiency: N/A  
Efficacy: 98.4 lumens/watt  
Spacing Criteria (0/90/45): 0.89 / 1 / 1.02  
Luminous Opening: Rectangular (W 0.29' x L: 4' x H: 0')  
CIE Type: General Diffuse

Input Watts (W): 66  
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	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°	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	3.3
10°-20°	553.8	8.5
20°-30°	717.3	11.0
30°-40°	702.4	10.8
40°-50°	537.6	8.3
50°-60°	358.3	5.5
60°-70°	195.5	3.0
70°-80°	81.5	1.3
80°-90°	23.1	0.4
90°-100°	247.7	3.8
100°-110°	598.7	9.2
110°-120°	638.5	9.8
120°-130°	517.2	8.0
130°-140°	400.4	6.2
140°-150°	305.5	4.7
150°-160°	221.1	3.4
160°-170°	136.2	2.1
170°-180°	46.1	0.7
0°-30°	1483.9	22.9
0°-40°	2186.3	33.7
0°-60°	3082.2	47.5
0°-90°	3382.2	52.1
90°-120°	1485.0	22.9
90°-150°	2708.0	41.7
90°-180°	3111.0	47.9
0°-180°	6493.7	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	2
95°	24	124	424	276	193	27
105°	96	165	720	931	919	101
115°	175	224	578	1096	1222	173
125°	249	287	502	872	1024	222
135°	306	342	481	687	791	237
145°	362	389	472	584	630	226
155°	415	433	478	518	536	192
165°	459	466	484	492	499	130
175°	486	484	486	481	480	46
180°	480	480	480	480	480	

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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°	8.1	67.1	158.0	76.8	52.1
95°	24.4	123.9	424.4	276.0	193.4
97.5°	43.4	137.3	559.0	538.5	462.3
100°	58.0	145.6	633.1	668.3	605.6
102.5°	71.9	153.1	681.9	776.3	739.1
105°	95.7	165.3	719.6	931.0	919.1
107.5°	119.1	179.8	697.4	1055.1	1083.1
110°	135.4	192.1	661.6	1108.5	1161.3

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**CANDELA DISTRIBUTION (continued):**

	0°	22.5°	45°	67.5°	90°
112.5°	151.6	204.4	629.8	1121.6	1211.8
115°	175.1	223.8	578.1	1096.0	1222.4
117.5°	198.3	244.2	547.8	1037.0	1185.1
120°	213.7	256.5	528.2	990.8	1146.0
122.5°	230.0	269.6	516.0	943.5	1096.4
125°	249.4	287.2	501.8	871.6	1023.9
127.5°	268.5	304.1	491.8	810.8	944.5
130°	279.9	314.7	488.5	768.4	899.7
132.5°	290.5	326.9	483.7	737.8	849.2
135°	306.4	342.2	481.4	687.3	790.8
137.5°	321.4	357.4	474.3	653.2	731.2
140°	332.8	365.7	474.3	628.6	700.2
142.5°	344.2	377.1	470.2	607.2	667.7
145°	362.3	389.2	472.3	584.2	630.0
147.5°	379.2	405.3	471.0	557.8	595.6
150°	389.8	412.7	474.3	546.2	576.1
152.5°	401.2	423.3	473.5	533.9	560.6
155°	415.3	433.2	478.4	517.5	536.4
157.5°	432.2	447.5	477.3	511.2	522.3
160°	438.7	451.6	481.4	503.0	510.9
162.5°	449.3	460.6	479.8	500.5	505.2
165°	459.0	466.0	484.5	491.7	498.7
167.5°	471.0	475.6	483.2	491.2	491.4
170°	474.3	477.3	486.5	485.6	490.6
172.5°	480.0	482.2	484.1	486.2	483.2
175°	485.5	483.5	485.5	481.4	480.4
177.5°	484.5	484.5	482.8	481.1	477.1
180°	480.4	480.4	480.4	480.4	480.4

(END OF REPORT)