

Scaled data based on original data using
LM-79-2019 Approved Method: Electrical and Photometric Measurements of Solid-
State Lighting Products

Test Report Prepared for

Cooper Lighting Solutions

(formerly Eaton)

Brand: CORELITE

Report Number: P519253

Luminaire Tested: **SQ4-WB-075U-125D-935-1D-UNV-STD-W-6**

Issue Date: 4/29/2021

Test Information

Test Method: LM-79-2019
Report Number: P519253
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1910-536-22, G2-2009-966-13)
Test Lab: INNOVATION CENTER
Issue Date: 4/29/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: CORELITE
Catalog Number: SQ4-WB-075U-125D-935-1D-UNV-STD-W-6
Description: CORELITE SQ4 SUSPENDED LED LUMINAIRE WITH WHITE BAFFLE
DOWNLIGHT 1250 LUMENS PER FOOT
UPLIGHT 750 LUMENS PER FOOT
Light Source: 3500K CCT, 90 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

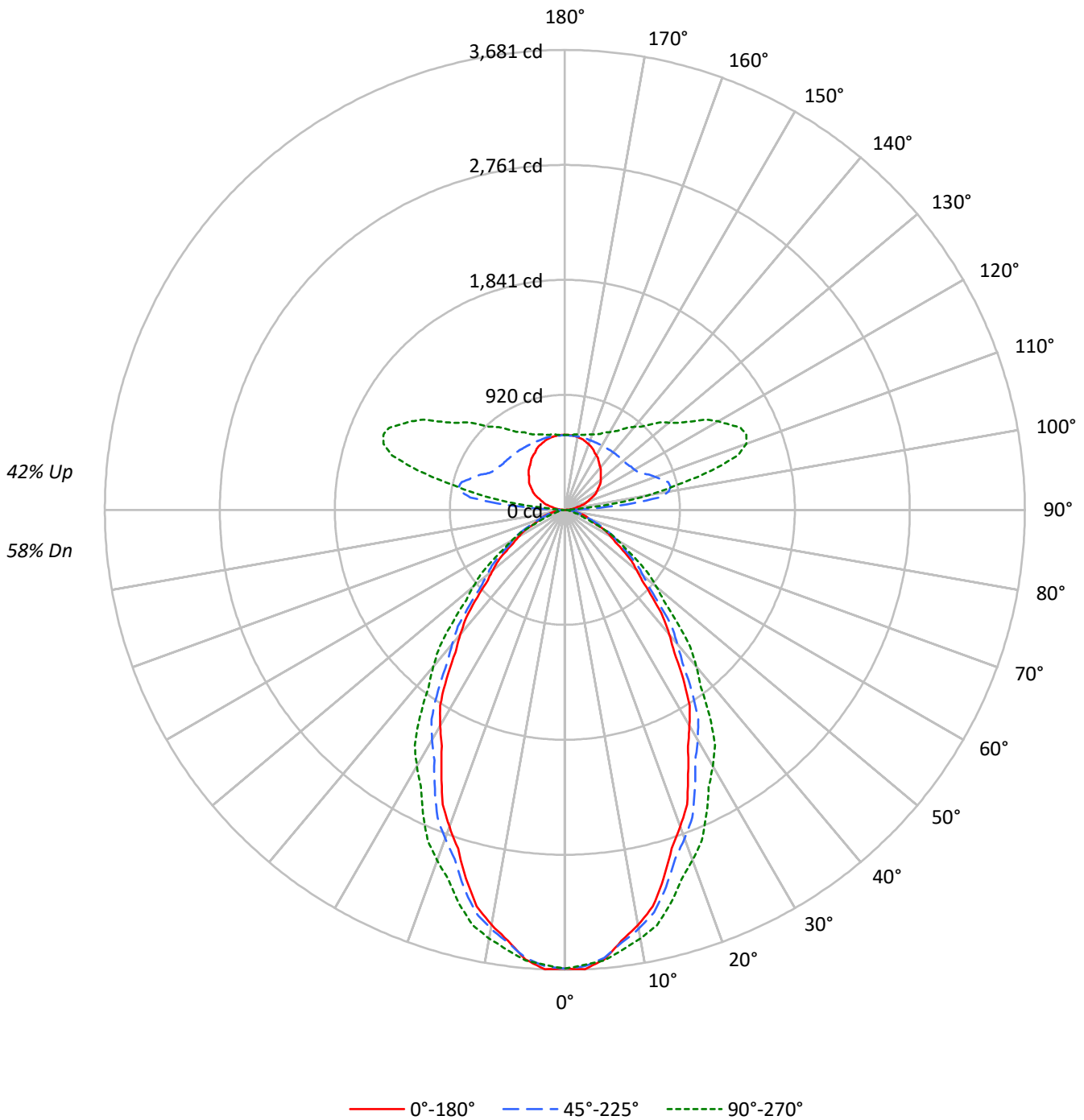
Lumens per Lamp: N/A
Luminaire Lumens: 9253.6 lumens
Efficiency: N/A
Efficacy: 95.1 lumens/watt
Spacing Criteria (0/90/45): 0.89 / 1 / 1.02
Luminous Opening: Rectangular (W 0.29' x L: 6' x H: 0')
CIE Type: General Diffuse

Input Watts (W): 97.3
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	0
RCR																		
0	109	109	109	109	102	102	102	102	88	88	88	75	75	75	63	63	63	58
1	101	97	94	90	94	91	88	85	79	77	75	68	66	65	58	57	56	51
2	93	86	81	76	87	81	76	72	71	67	64	61	59	57	53	51	49	45
3	86	77	70	65	80	72	67	62	64	59	56	56	52	50	48	46	44	40
4	79	69	62	57	74	65	59	54	58	53	49	51	47	44	44	41	39	36
5	73	63	55	50	68	59	52	47	52	47	43	46	42	39	40	37	35	32
6	68	57	49	44	64	54	47	42	48	42	38	42	38	35	37	34	31	29
7	63	52	44	39	59	49	42	38	44	39	35	39	35	32	34	31	29	26
8	59	48	40	35	55	45	39	34	40	35	31	36	32	29	32	29	26	24
9	55	44	37	32	52	42	35	31	37	32	29	34	29	26	30	26	24	22
10	52	41	34	29	49	39	32	28	35	30	26	31	27	24	28	25	22	20

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	22583	22583	22583
5°	22302	22222	22351
10°	21070	21261	21754
15°	19450	19902	20795
20°	17663	18328	19540
25°	15843	16707	18205
30°	14166	15092	16820
35°	12387	13282	15182
40°	10426	11254	13142
45°	8605	9347	10972
50°	7183	7831	9141
55°	6099	6720	7549
60°	5212	5826	6025
65°	4151	4900	3892
70°	3679	3825	2376
75°	3408	3101	1454
80°	3138	2855	1254
85°	2844	2618	1023



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	336.8	3.6
10°-20°	876.0	9.5
20°-30°	1134.6	12.3
30°-40°	1111.1	12.0
40°-50°	850.5	9.2
50°-60°	566.7	6.1
60°-70°	309.2	3.3
70°-80°	128.9	1.4
80°-90°	38.0	0.4
90°-100°	282.5	3.1
100°-110°	777.2	8.4
110°-120°	802.2	8.7
120°-130°	642.7	6.9
130°-140°	504.8	5.5
140°-150°	386.9	4.2
150°-160°	278.2	3.0
160°-170°	170.1	1.8
170°-180°	57.3	0.6
0°-30°	2347.3	25.4
0°-40°	3458.4	37.4
0°-60°	4875.6	52.7
0°-90°	5351.7	57.8
90°-120°	1861.9	20.1
90°-150°	3396.4	36.7
90°-180°	3902.0	42.2
0°-180°	9253.6	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	3672	3672	3672	3672	3672	
5°	3612	3576	3599	3607	3620	336
15°	3054	3044	3125	3210	3266	853
25°	2334	2341	2462	2569	2682	1074
35°	1650	1658	1769	1888	2022	1026
45°	989	1008	1075	1156	1261	771
55°	569	592	627	650	704	516
65°	285	309	337	294	267	296
75°	143	143	130	90	61	153
85°	40	40	37	24	14	44
90°	1	5	9	12	12	5
95°	42	154	500	214	136	44
105°	139	214	856	1304	1217	146
115°	246	300	687	1368	1552	243
125°	339	386	623	1054	1235	302
135°	409	454	605	852	965	316
145°	473	505	596	726	782	296
155°	535	553	593	653	672	246
165°	579	586	595	619	623	163
175°	599	600	596	604	603	57
180°	599	599	599	599	599	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	3671.6	3671.6	3671.6	3671.6	3671.6
2.5°	3680.6	3647.8	3656.1	3655.9	3645.8
5°	3612.0	3575.7	3599.1	3607.4	3620.0
7.5°	3477.9	3450.5	3493.1	3524.6	3550.1
10°	3373.5	3349.9	3404.1	3450.0	3483.1
12.5°	3252.4	3232.5	3299.7	3361.3	3404.5
15°	3054.5	3043.5	3125.4	3210.5	3265.6
17.5°	2842.8	2837.5	2931.5	3030.7	3101.3
20°	2698.5	2696.9	2800.0	2903.4	2985.3
22.5°	2552.9	2556.3	2664.7	2772.1	2865.4
25°	2334.4	2340.7	2461.7	2569.0	2682.4
27.5°	2132.4	2135.2	2260.3	2373.6	2494.5
30°	1994.5	2002.3	2125.0	2242.2	2368.2
32.5°	1856.6	1865.7	1985.8	2106.9	2235.5
35°	1649.7	1657.6	1768.9	1888.0	2021.9
37.5°	1436.4	1447.1	1546.0	1658.5	1790.2
40°	1298.5	1314.3	1401.6	1507.6	1636.8
42.5°	1165.8	1185.3	1266.3	1366.9	1483.4
45°	989.2	1008.1	1074.6	1155.9	1261.4
47.5°	837.1	858.8	909.9	980.0	1070.1
50°	750.7	771.2	818.4	870.3	955.3
52.5°	674.7	695.2	737.2	777.2	849.7
55°	568.7	592.3	626.7	650.5	704.0
57.5°	481.7	504.4	531.6	542.4	574.8
60°	423.7	448.9	473.6	472.4	489.8
62.5°	370.9	392.3	416.9	399.9	400.8
65°	285.2	308.8	336.7	294.2	267.4
67.5°	230.4	235.4	264.2	205.2	173.3
70°	204.6	204.6	212.7	158.9	132.1
72.5°	180.1	180.1	172.7	129.2	101.2
75°	143.4	143.4	130.5	89.6	61.2
77.5°	110.5	109.3	99.9	66.8	44.5
80°	88.6	88.6	80.6	52.8	35.4
82.5°	69.3	69.3	62.5	41.2	26.4
85°	40.3	40.3	37.1	24.0	14.5
87.5°	14.4	15.2	14.7	10.0	8.7
90°	1.3	5.0	8.9	11.5	11.5
92.5°	17.6	75.2	130.2	50.0	41.0
95°	42.1	154.2	499.5	213.6	136.4
97.5°	68.6	171.0	762.3	587.4	414.4
100°	87.9	181.4	844.9	852.8	695.8
102.5°	106.3	193.8	866.3	1058.0	914.0
105°	138.9	213.7	856.4	1304.2	1217.0
107.5°	170.0	238.3	807.7	1424.8	1450.7
110°	192.4	254.7	771.0	1454.8	1544.5

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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	212.8	273.1	734.3	1435.5	1572.1
115°	246.0	299.5	686.9	1367.8	1552.2
117.5°	277.6	326.9	656.8	1272.7	1481.3
120°	296.9	344.3	643.6	1201.5	1417.1
122.5°	314.3	361.6	634.4	1139.1	1343.7
125°	339.0	386.3	623.2	1054.2	1234.9
127.5°	362.4	407.5	615.8	983.3	1141.8
130°	374.7	420.8	611.7	941.2	1085.8
132.5°	388.9	435.0	608.6	904.2	1034.8
135°	409.1	453.9	605.3	852.5	964.7
137.5°	427.9	469.5	602.5	810.8	903.3
140°	442.2	480.8	601.5	783.1	866.6
142.5°	454.4	490.1	599.5	758.3	829.9
145°	472.8	505.2	596.4	726.4	782.5
147.5°	492.4	520.3	594.9	698.1	743.0
150°	504.6	529.6	593.9	682.6	717.5
152.5°	515.9	538.8	592.8	669.2	698.1
155°	535.2	552.7	592.6	652.9	671.6
157.5°	549.2	563.5	592.6	639.5	652.5
160°	559.4	570.7	592.6	632.3	642.3
162.5°	567.6	576.8	593.6	626.1	634.1
165°	578.6	586.0	595.1	619.4	623.2
167.5°	586.2	591.9	596.4	613.8	614.8
170°	591.3	595.0	596.4	611.7	611.7
172.5°	595.4	597.1	596.4	608.6	607.6
175°	598.9	600.2	596.4	604.0	602.8
177.5°	600.0	600.0	595.9	602.0	600.0
180°	598.9	598.9	598.9	598.9	598.9

(END OF REPORT)