

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: P519250

Luminaire Tested: **SQ4-WB-075U-125D-930-1D-UNV-STD-W-8**

Issue Date: 4/29/2021

Test Information

Test Method: LM-79-2019
Report Number: P519250
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-930-1D-UNV-STD-W-8
Description: CORELITE SQ4 SUSPENDED LED LUMINAIRE WITH WHITE BAFFLE
DOWNLIGHT 1250 LUMENS PER FOOT
UPLIGHT 750 LUMENS PER FOOT
Light Source: 3000K CCT, 90 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

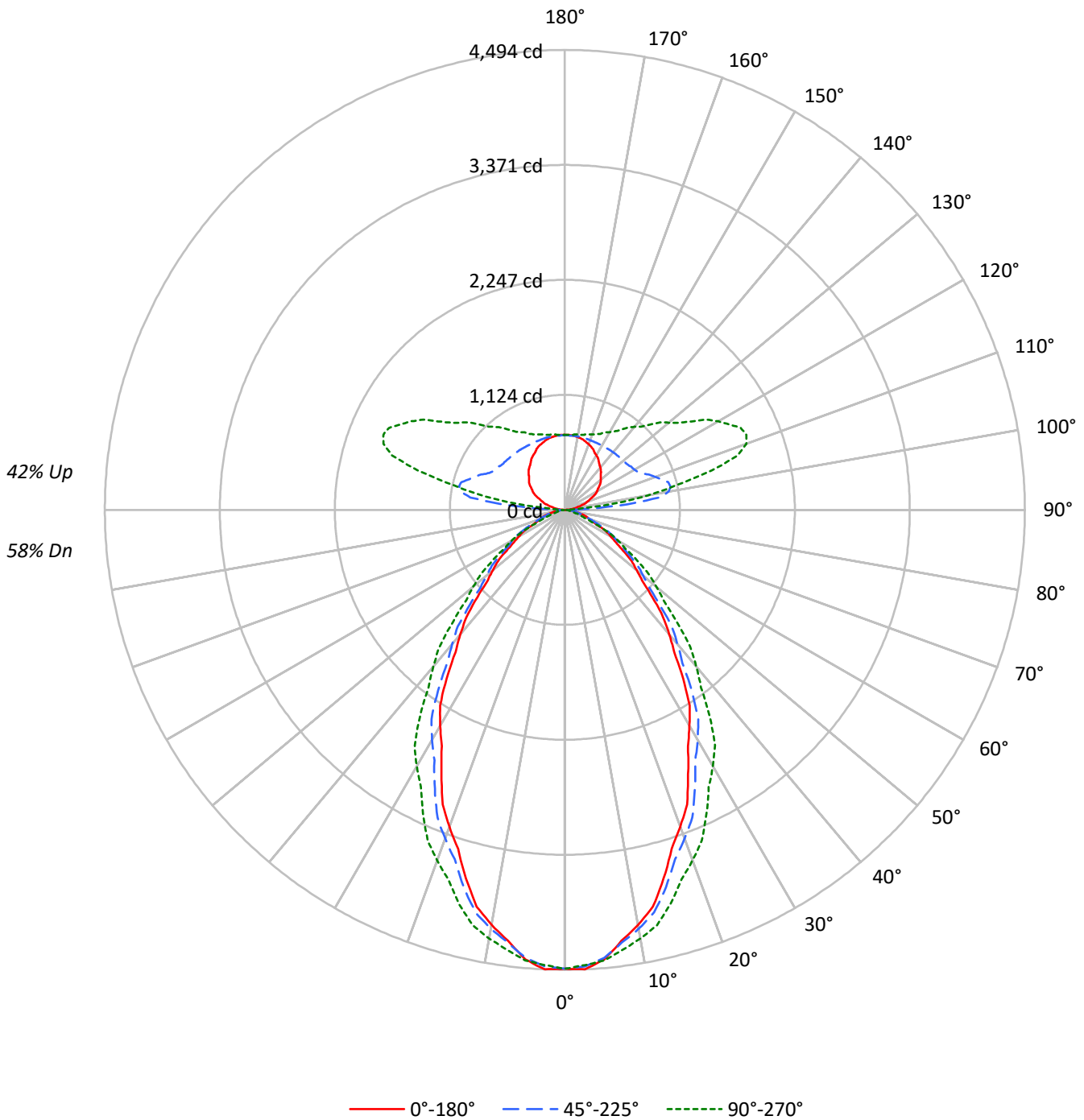
Lumens per Lamp: N/A
Luminaire Lumens: 11299.6 lumens
Efficiency: N/A
Efficacy: 88.5 lumens/watt
Spacing Criteria (0/90/45): 0.89 / 1 / 1.02
Luminous Opening: Rectangular (W 0.29' x L: 8' x H: 0')
CIE Type: General Diffuse

Input Watts (W): 127.7
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	109	109	109	109	102	102	102	102	88	88	88	75	75	75	63	63	63	58				58
1	101	97	94	90	94	91	88	85	79	77	75	68	66	65	58	57	56	51				51
2	93	86	81	76	87	81	76	72	71	67	64	61	59	57	53	51	49	45				45
3	86	77	70	65	80	72	67	62	64	59	56	56	52	50	48	46	44	40				40
4	79	69	62	57	74	65	59	54	58	53	49	51	47	44	44	41	39	36				36
5	73	63	55	50	68	59	52	47	52	47	43	46	42	39	40	37	35	32				32
6	68	57	49	44	64	54	47	42	48	42	38	42	38	35	37	34	31	29				29
7	63	52	44	39	59	49	42	38	44	39	35	39	35	32	34	31	29	26				26
8	59	48	40	35	55	45	39	34	40	35	31	36	32	29	32	29	26	24				24
9	55	44	37	32	52	42	35	31	37	32	29	34	29	26	30	26	24	22				22
10	52	41	34	29	49	39	32	28	35	30	26	31	27	24	28	25	22	20				20

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	20682	20682	20682
5°	20424	20351	20470
10°	19296	19472	19923
15°	17813	18227	19044
20°	16176	16785	17895
25°	14509	15301	16672
30°	12973	13822	15404
35°	11345	12164	13904
40°	9548	10307	12036
45°	7880	8561	10049
50°	6579	7172	8372
55°	5585	6155	6914
60°	4774	5336	5517
65°	3801	4488	3565
70°	3369	3503	2176
75°	3121	2839	1333
80°	2874	2614	1150
85°	2604	2392	937



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	411.2	3.6
10°-20°	1069.6	9.5
20°-30°	1385.5	12.3
30°-40°	1356.7	12.0
40°-50°	1038.5	9.2
50°-60°	692.0	6.1
60°-70°	377.6	3.3
70°-80°	157.3	1.4
80°-90°	46.4	0.4
90°-100°	344.9	3.1
100°-110°	949.1	8.4
110°-120°	979.6	8.7
120°-130°	784.8	6.9
130°-140°	616.4	5.5
140°-150°	472.4	4.2
150°-160°	339.7	3.0
160°-170°	207.7	1.8
170°-180°	70.0	0.6
0°-30°	2866.3	25.4
0°-40°	4223.1	37.4
0°-60°	5953.6	52.7
0°-90°	6534.9	57.8
90°-120°	2273.6	20.1
90°-150°	4147.3	36.7
90°-180°	4765.0	42.2
0°-180°	11299.6	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	4483	4483	4483	4483	4483	
5°	4411	4366	4395	4405	4420	410
15°	3730	3716	3816	3920	3988	1042
25°	2850	2858	3006	3137	3276	1311
35°	2014	2024	2160	2305	2469	1252
45°	1208	1231	1312	1412	1540	942
55°	694	723	765	794	860	630
65°	348	377	411	359	327	362
75°	175	175	159	109	75	187
85°	49	49	45	29	18	53
90°	2	6	11	14	14	6
95°	51	188	610	261	166	54
105°	170	261	1046	1593	1486	179
115°	300	366	839	1670	1895	296
125°	414	472	761	1287	1508	369
135°	500	554	739	1041	1178	385
145°	577	617	728	887	956	362
155°	654	675	724	797	820	300
165°	706	716	727	756	761	199
175°	731	733	728	738	736	69
180°	731	731	731	731	731	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	4483.4	4483.4	4483.4	4483.4	4483.4
2.5°	4494.4	4454.4	4464.5	4464.2	4451.9
5°	4410.6	4366.3	4394.8	4405.0	4420.4
7.5°	4246.9	4213.4	4265.4	4303.9	4335.0
10°	4119.4	4090.6	4156.8	4212.8	4253.2
12.5°	3971.5	3947.2	4029.3	4104.5	4157.2
15°	3729.9	3716.4	3816.5	3920.3	3987.6
17.5°	3471.4	3464.9	3579.6	3700.8	3787.0
20°	3295.1	3293.2	3419.1	3545.3	3645.3
22.5°	3117.3	3121.5	3253.8	3385.1	3498.9
25°	2850.5	2858.2	3006.0	3137.0	3275.5
27.5°	2603.8	2607.3	2760.0	2898.4	3046.1
30°	2435.5	2445.1	2594.8	2738.0	2891.9
32.5°	2267.1	2278.2	2424.8	2572.8	2729.8
35°	2014.5	2024.1	2160.0	2305.4	2468.9
37.5°	1754.0	1767.1	1887.8	2025.2	2186.0
40°	1585.6	1604.8	1711.5	1841.0	1998.7
42.5°	1423.5	1447.4	1546.3	1669.1	1811.4
45°	1207.9	1231.0	1312.2	1411.5	1540.4
47.5°	1022.2	1048.7	1111.1	1196.6	1306.6
50°	916.7	941.7	999.4	1062.7	1166.6
52.5°	823.9	848.9	900.2	949.0	1037.5
55°	694.4	723.3	765.3	794.3	859.7
57.5°	588.2	615.9	649.2	662.3	701.9
60°	517.4	548.2	578.4	576.9	598.0
62.5°	452.9	479.0	509.1	488.3	489.5
65°	348.2	377.1	411.2	359.3	326.6
67.5°	281.3	287.5	322.6	250.5	211.7
70°	249.8	249.8	259.7	194.0	161.3
72.5°	219.9	219.9	210.9	157.8	123.5
75°	175.1	175.1	159.3	109.4	74.8
77.5°	135.0	133.4	122.0	81.6	54.3
80°	108.2	108.2	98.4	64.4	43.3
82.5°	84.6	84.6	76.3	50.3	32.3
85°	49.2	49.2	45.2	29.2	17.7
87.5°	17.6	18.5	17.9	12.2	10.7
90°	1.6	6.1	10.9	14.0	14.0
92.5°	21.5	91.8	159.0	61.1	50.1
95°	51.4	188.3	610.0	260.8	166.5
97.5°	83.7	208.8	930.9	717.2	506.1
100°	107.4	221.5	1031.7	1041.4	849.6
102.5°	129.8	236.6	1057.9	1291.9	1116.1
105°	169.6	260.9	1045.7	1592.6	1486.1
107.5°	207.6	291.0	986.3	1739.8	1771.5
110°	235.0	311.1	941.5	1776.5	1886.0



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	259.9	333.5	896.6	1752.9	1919.6
115°	300.3	365.8	838.8	1670.2	1895.4
117.5°	338.9	399.2	802.0	1554.1	1808.8
120°	362.6	420.4	785.8	1467.2	1730.4
122.5°	383.7	441.6	774.6	1390.9	1640.8
125°	413.9	471.7	760.9	1287.3	1507.9
127.5°	442.6	497.6	751.9	1200.7	1394.3
130°	457.5	513.8	746.9	1149.3	1325.8
132.5°	474.9	531.2	743.2	1104.1	1263.6
135°	499.5	554.3	739.2	1041.0	1178.0
137.5°	522.5	573.4	735.7	990.1	1103.0
140°	540.0	587.1	734.5	956.2	1058.2
142.5°	554.9	598.4	732.0	926.0	1013.3
145°	577.3	616.9	728.3	887.0	955.5
147.5°	601.3	635.4	726.4	852.4	907.2
150°	616.2	646.7	725.2	833.5	876.1
152.5°	629.9	657.9	723.9	817.1	852.4
155°	653.6	674.9	723.6	797.3	820.1
157.5°	670.7	688.0	723.6	780.9	796.7
160°	683.1	696.8	723.6	772.1	784.3
162.5°	693.1	704.4	724.8	764.6	774.3
165°	706.5	715.6	726.7	756.4	760.9
167.5°	715.8	722.8	728.3	749.5	750.7
170°	722.0	726.6	728.3	746.9	746.9
172.5°	727.0	729.2	728.3	743.2	742.0
175°	731.4	732.9	728.3	737.6	736.0
177.5°	732.6	732.6	727.6	735.1	732.6
180°	731.4	731.4	731.4	731.4	731.4

(END OF REPORT)