

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: P519254

Luminaire Tested: **SQ4-WB-075U-125D-935-1D-UNV-STD-W-8**

Issue Date: 4/29/2021

Test Information

Test Method: LM-79-2019
Report Number: P519254
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-8
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

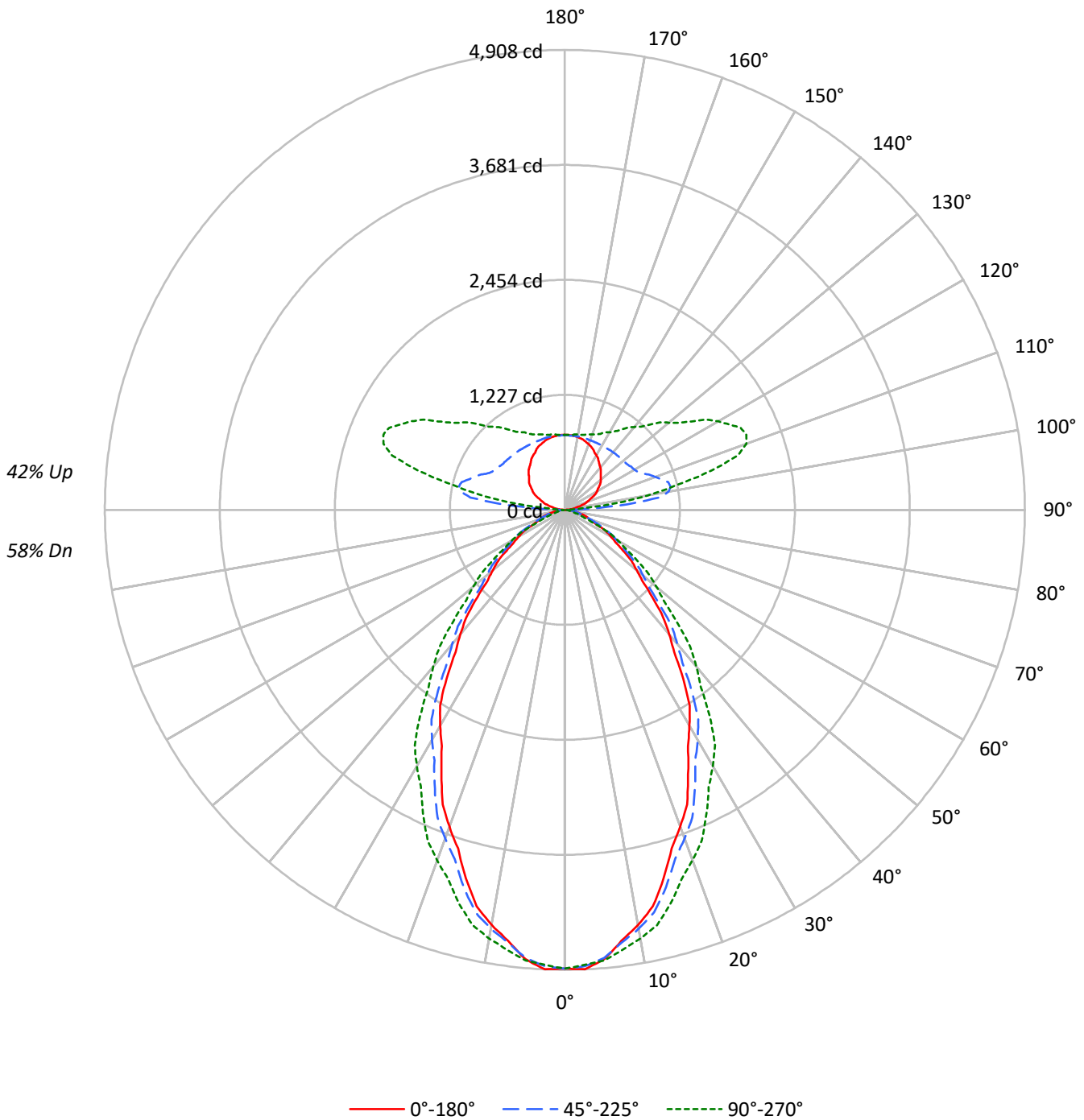
Lumens per Lamp: N/A
Luminaire Lumens: 12338.1 lumens
Efficiency: N/A
Efficacy: 96.6 lumens/watt
Spacing Criteria (0/90/45): 0.89 / 1 / 1.02
Luminous Opening: Rectangular (W 0.29' x L: 8' x H: 0')
CIE Type: General Diffuse

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	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°	22301	22222	22351
10°	21070	21261	21754
15°	19451	19902	20794
20°	17663	18327	19540
25°	15843	16706	18204
30°	14165	15092	16820
35°	12387	13283	15182
40°	10426	11254	13142
45°	8604	9347	10973
50°	7184	7831	9142
55°	6099	6720	7550
60°	5212	5826	6025
65°	4150	4900	3892
70°	3679	3824	2375
75°	3408	3101	1454
80°	3137	2853	1257
85°	2842	2615	1022



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	449.0	3.6
10°-20°	1167.9	9.5
20°-30°	1512.8	12.3
30°-40°	1481.4	12.0
40°-50°	1133.9	9.2
50°-60°	755.6	6.1
60°-70°	412.3	3.3
70°-80°	171.8	1.4
80°-90°	50.7	0.4
90°-100°	376.7	3.1
100°-110°	1036.3	8.4
110°-120°	1069.6	8.7
120°-130°	857.0	6.9
130°-140°	673.1	5.5
140°-150°	515.8	4.2
150°-160°	370.9	3.0
160°-170°	226.8	1.8
170°-180°	76.4	0.6
0°-30°	3129.8	25.4
0°-40°	4611.2	37.4
0°-60°	6500.7	52.7
0°-90°	7135.6	57.8
90°-120°	2482.6	20.1
90°-150°	4528.5	36.7
90°-180°	5203.0	42.2
0°-180°	12338.1	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	4895	4895	4895	4895	4895	
5°	4816	4768	4799	4810	4827	448
15°	4073	4058	4167	4281	4354	1137
25°	3112	3121	3282	3425	3576	1431
35°	2200	2210	2359	2517	2696	1367
45°	1319	1344	1433	1541	1682	1029
55°	758	790	836	867	939	688
65°	380	412	449	392	357	395
75°	191	191	174	119	82	204
85°	54	54	49	32	19	58
90°	2	7	12	15	15	6
95°	56	206	666	285	182	59
105°	185	285	1142	1739	1623	195
115°	328	399	916	1824	2070	324
125°	452	515	831	1406	1646	403
135°	545	605	807	1137	1286	421
145°	630	674	795	968	1043	395
155°	714	737	790	870	896	328
165°	771	781	794	826	831	217
175°	799	800	795	805	804	76
180°	799	799	799	799	799	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	4895.4	4895.4	4895.4	4895.4	4895.4
2.5°	4907.5	4863.8	4874.8	4874.5	4861.1
5°	4815.9	4767.6	4798.8	4809.9	4826.7
7.5°	4637.2	4600.7	4657.4	4699.4	4733.5
10°	4498.0	4466.5	4538.8	4600.0	4644.1
12.5°	4336.5	4310.0	4399.7	4481.7	4539.3
15°	4072.7	4058.0	4167.2	4280.6	4354.1
17.5°	3790.5	3783.3	3908.6	4040.9	4135.0
20°	3598.0	3595.9	3733.3	3871.1	3980.4
22.5°	3403.8	3408.4	3552.9	3696.2	3820.5
25°	3112.5	3120.9	3282.2	3425.3	3576.5
27.5°	2843.2	2846.9	3013.7	3164.7	3326.1
30°	2659.3	2669.8	2833.3	2989.6	3157.6
32.5°	2475.4	2487.6	2647.7	2809.3	2980.6
35°	2199.6	2210.1	2358.6	2517.3	2695.8
37.5°	1915.2	1929.5	2061.3	2211.3	2386.9
40°	1731.3	1752.3	1868.8	2010.2	2182.4
42.5°	1554.3	1580.4	1688.4	1822.5	1977.9
45°	1318.9	1344.1	1432.8	1541.2	1681.9
47.5°	1116.1	1145.1	1213.2	1306.6	1426.7
50°	1001.0	1028.3	1091.2	1160.4	1273.8
52.5°	899.6	926.9	983.0	1036.3	1132.9
55°	758.3	789.8	835.6	867.3	938.7
57.5°	642.3	672.5	708.9	723.2	766.4
60°	564.9	598.5	631.5	629.9	653.0
62.5°	494.5	523.0	555.9	533.2	534.4
65°	380.2	411.7	448.9	392.3	356.6
67.5°	307.2	313.9	352.3	273.6	231.1
70°	272.8	272.8	283.5	211.8	176.1
72.5°	240.2	240.2	230.3	172.3	134.9
75°	191.2	191.2	174.0	119.4	81.6
77.5°	147.4	145.7	133.2	89.1	59.3
80°	118.1	118.1	107.4	70.4	47.3
82.5°	92.4	92.4	83.3	55.0	35.2
85°	53.7	53.7	49.4	31.9	19.3
87.5°	19.2	20.2	19.6	13.3	11.7
90°	1.7	6.7	11.9	15.3	15.3
92.5°	23.4	100.2	173.7	66.7	54.7
95°	56.1	205.6	666.1	284.8	181.8
97.5°	91.4	228.0	1016.4	783.2	552.6
100°	117.2	241.8	1126.5	1137.1	927.7
102.5°	141.7	258.3	1155.1	1410.7	1218.6
105°	185.2	284.9	1141.8	1739.0	1622.7
107.5°	226.7	317.7	1076.9	1899.8	1934.3
110°	256.6	339.6	1028.0	1939.7	2059.4

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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	283.8	364.2	979.0	1914.0	2096.1
115°	327.9	399.4	915.8	1823.7	2069.6
117.5°	370.1	435.9	875.7	1697.0	1975.1
120°	395.9	459.0	858.1	1602.0	1889.5
122.5°	419.0	482.1	845.8	1518.8	1791.6
125°	452.0	515.1	830.9	1405.6	1646.5
127.5°	483.2	543.4	821.0	1311.1	1522.4
130°	499.5	561.0	815.6	1255.0	1447.7
132.5°	518.6	580.1	811.5	1205.6	1379.7
135°	545.4	605.2	807.1	1136.7	1286.3
137.5°	570.6	626.1	803.4	1081.1	1204.4
140°	589.6	641.1	802.0	1044.1	1155.4
142.5°	605.9	653.4	799.3	1011.1	1106.5
145°	630.4	673.6	795.2	968.5	1043.3
147.5°	656.6	693.8	793.2	930.8	990.6
150°	672.9	706.1	791.8	910.1	956.6
152.5°	687.8	718.4	790.4	892.2	930.8
155°	713.6	736.9	790.1	870.5	895.5
157.5°	732.3	751.3	790.1	852.7	870.0
160°	745.9	760.9	790.1	843.1	856.4
162.5°	756.8	769.1	791.5	834.9	845.5
165°	771.4	781.4	793.5	825.9	830.9
167.5°	781.6	789.2	795.2	818.3	819.7
170°	788.4	793.4	795.2	815.6	815.6
172.5°	793.8	796.2	795.2	811.5	810.2
175°	798.6	800.3	795.2	805.4	803.7
177.5°	800.0	800.0	794.5	802.6	800.0
180°	798.6	798.6	798.6	798.6	798.6

(END OF REPORT)