

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: P519476

Luminaire Tested: **SQ4-WB-125U-075D-830-1D-UNV-STD-W-4**

Issue Date: 4/29/2021

Test Information

Test Method: LM-79-2019
Report Number: P519476
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1910-536-24, 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-125U-075D-830-1D-UNV-STD-W-4
Description: CORELITE SQ4 SUSPENDED LED LUMINAIRE WITH WHITE BAFFLE
DOWNLIGHT 750 LUMENS PER FOOT
UPLIGHT 1250 LUMENS PER FOOT
Light Source: 3000K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

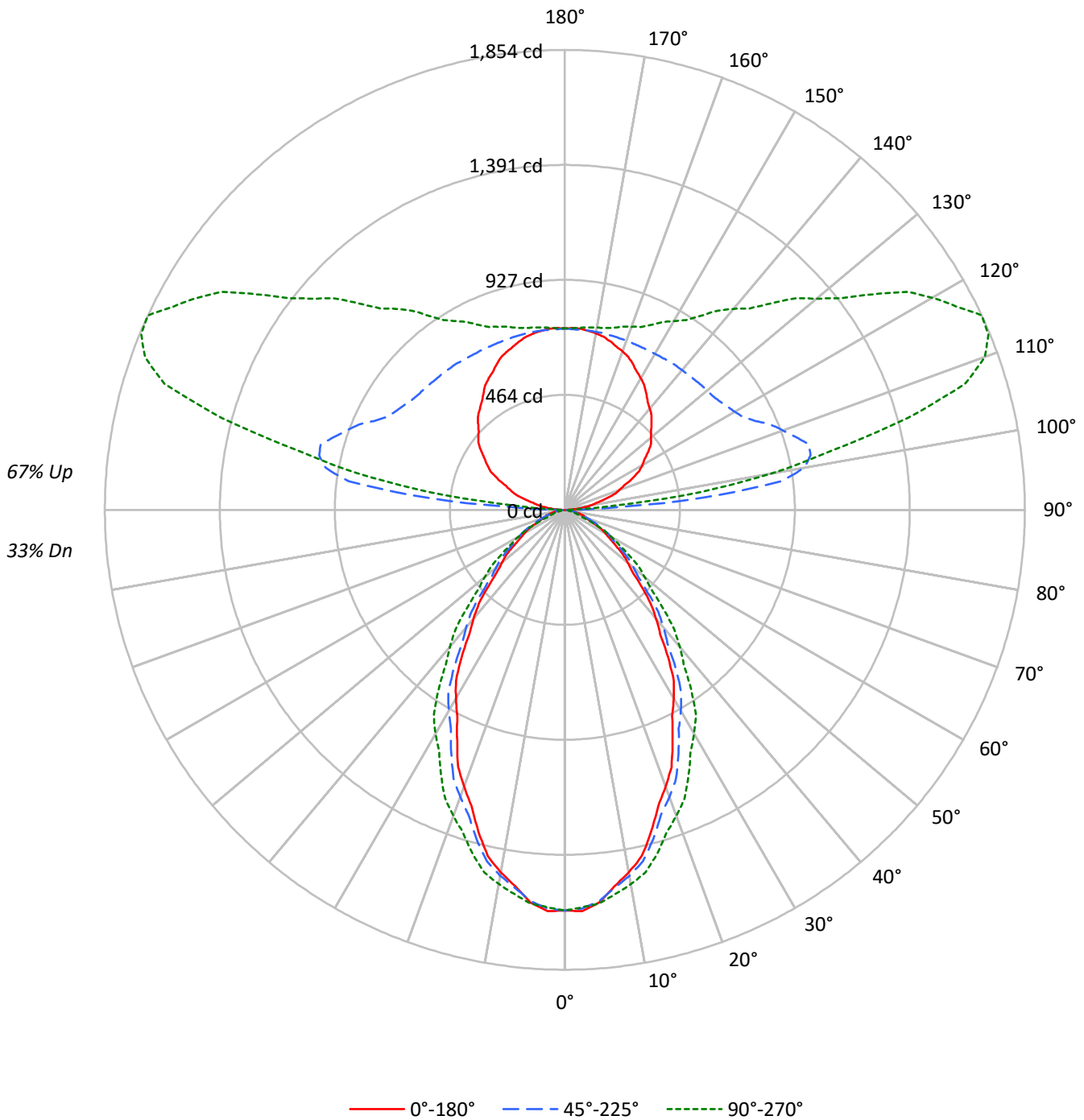
Lumens per Lamp: N/A
Luminaire Lumens: 7074.0 lumens
Efficiency: N/A
Efficacy: 127.0 lumens/watt
Spacing Criteria (0/90/45): 0.89 / 1 / 1.02
Luminous Opening: Rectangular (W 0.29' x L: 4' x H: 0')
CIE Type: Semi-Indirect

Input Watts (W): 55.7
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	103	103	103	103	93	93	93	93	74	74	74	57	57	57	41	41	41	33				
1	95	91	87	84	85	82	79	77	66	64	62	51	50	49	37	36	36	30				
2	87	80	75	70	78	73	68	64	59	55	53	46	44	42	34	32	31	26				
3	80	71	65	59	72	65	59	54	52	48	45	41	38	36	31	29	28	23				
4	73	63	56	51	66	58	52	47	47	43	39	37	34	32	28	26	25	21				
5	68	57	49	44	61	52	45	41	42	38	34	34	31	28	26	24	22	18				
6	62	51	44	38	56	47	40	36	39	34	30	31	27	25	23	21	20	17				
7	58	46	39	34	52	43	36	32	35	30	27	28	25	22	22	19	18	15				
8	54	42	35	30	49	39	33	28	32	27	24	26	23	20	20	18	16	14				
9	50	39	32	27	45	36	29	25	30	25	22	24	21	18	19	16	15	13				
10	47	36	29	24	43	33	27	23	27	23	20	22	19	17	17	15	14	12				

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	14901	14901	14901
5°	14716	14663	14748
10°	13903	14029	14354
15°	12835	13133	13721
20°	11655	12093	12893
25°	10454	11024	12012
30°	9347	9959	11099
35°	8174	8764	10017
40°	6880	7426	8672
45°	5677	6168	7240
50°	4741	5167	6033
55°	4025	4435	4982
60°	3440	3845	3975
65°	2738	3233	2567
70°	2428	2522	1567
75°	2249	2046	959
80°	2072	1881	829
85°	1874	1725	677



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	148.1	2.1
10°-20°	385.3	5.4
20°-30°	499.1	7.1
30°-40°	488.8	6.9
40°-50°	374.1	5.3
50°-60°	249.3	3.5
60°-70°	136.0	1.9
70°-80°	56.7	0.8
80°-90°	17.8	0.3
90°-100°	342.0	4.8
100°-110°	921.1	13.0
110°-120°	966.7	13.7
120°-130°	784.4	11.1
130°-140°	615.2	8.7
140°-150°	472.3	6.7
150°-160°	339.6	4.8
160°-170°	207.5	2.9
170°-180°	70.0	1.0
0°-30°	1032.6	14.6
0°-40°	1521.3	21.5
0°-60°	2144.8	30.3
0°-90°	2355.2	33.3
90°-120°	2229.8	31.5
90°-150°	4101.8	58.0
90°-180°	4719.0	66.7
0°-180°	7074.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1615	1615	1615	1615	1615	
5°	1589	1573	1583	1587	1592	148
15°	1344	1339	1375	1412	1436	375
25°	1027	1030	1083	1130	1180	472
35°	726	729	778	830	889	451
45°	435	444	473	508	555	339
55°	250	261	276	286	310	227
65°	125	136	148	129	118	130
75°	63	63	57	39	27	67
85°	18	18	16	10	6	19
90°	2	6	11	12	12	5
95°	52	186	561	287	198	54
105°	170	265	1019	1524	1430	179
115°	301	368	848	1639	1854	296
125°	411	472	762	1287	1515	367
135°	494	552	740	1039	1176	382
145°	572	616	731	888	954	359
155°	649	673	724	797	822	299
165°	704	712	727	756	760	199
175°	732	731	728	738	737	70
180°	731	731	731	731	731	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1615.1	1615.1	1615.1	1615.1	1615.1
2.5°	1619.1	1604.7	1608.3	1608.2	1603.8
5°	1588.9	1572.9	1583.2	1586.9	1592.4
7.5°	1529.9	1517.9	1536.6	1550.4	1561.7
10°	1484.0	1473.6	1497.5	1517.6	1532.2
12.5°	1430.7	1422.0	1451.5	1478.6	1497.6
15°	1343.7	1338.8	1374.9	1412.3	1436.5
17.5°	1250.6	1248.2	1289.5	1333.2	1364.2
20°	1187.1	1186.4	1231.7	1277.2	1313.2
22.5°	1123.0	1124.5	1172.2	1219.5	1260.5
25°	1026.9	1029.7	1082.9	1130.1	1180.0
27.5°	938.0	939.3	994.3	1044.1	1097.3
30°	877.4	880.8	934.8	986.3	1041.8
32.5°	816.7	820.7	873.5	926.8	983.4
35°	725.7	729.2	778.1	830.5	889.4
37.5°	631.9	636.6	680.1	729.6	787.5
40°	571.2	578.1	616.6	663.2	720.0
42.5°	512.8	521.4	557.0	601.3	652.6
45°	435.1	443.5	472.7	508.5	554.9
47.5°	368.2	377.8	400.3	431.1	470.7
50°	330.3	339.3	360.0	382.8	420.3
52.5°	296.8	305.8	324.3	341.9	373.8
55°	250.2	260.6	275.7	286.1	309.7
57.5°	211.9	221.9	233.9	238.6	252.9
60°	186.4	197.5	208.4	207.8	215.4
62.5°	163.1	172.6	183.4	175.9	176.3
65°	125.4	135.8	148.1	129.4	117.6
67.5°	101.3	103.6	116.2	90.3	76.3
70°	90.0	90.0	93.5	69.9	58.1
72.5°	79.2	79.2	76.0	56.8	44.5
75°	63.1	63.1	57.4	39.4	26.9
77.5°	48.6	48.1	43.9	29.4	19.6
80°	39.0	39.0	35.4	23.2	15.6
82.5°	30.5	30.5	27.5	18.1	11.6
85°	17.7	17.7	16.3	10.5	6.4
87.5°	6.6	7.3	7.9	5.8	5.3
90°	1.9	5.5	11.2	12.1	12.1
92.5°	22.7	80.3	158.7	76.4	53.1
95°	52.1	186.0	560.6	286.7	198.3
97.5°	83.2	212.9	879.2	734.5	553.9
100°	107.1	223.6	980.5	1025.9	851.1
102.5°	130.2	238.7	1014.0	1244.1	1100.6
105°	170.4	265.1	1018.7	1524.1	1430.3
107.5°	208.4	292.9	975.3	1667.9	1692.1
110°	233.7	313.8	935.8	1712.6	1800.9

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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	260.5	334.8	897.8	1702.7	1847.8
115°	300.8	368.1	848.3	1639.1	1854.0
117.5°	337.5	400.6	809.9	1537.6	1776.9
120°	361.3	422.3	790.6	1464.7	1710.6
122.5°	382.2	442.4	776.4	1390.2	1635.3
125°	410.6	471.6	761.7	1287.4	1515.0
127.5°	438.0	498.1	752.4	1196.7	1399.9
130°	454.4	514.5	748.7	1144.7	1323.2
132.5°	470.8	530.2	744.9	1099.0	1262.9
135°	494.5	551.8	740.3	1038.6	1176.1
137.5°	517.0	572.0	737.9	987.4	1100.3
140°	532.6	585.4	735.6	955.8	1057.8
142.5°	549.0	598.2	734.1	926.4	1012.4
145°	571.7	616.4	731.0	888.0	953.5
147.5°	596.3	635.1	727.8	855.6	907.1
150°	612.7	646.4	726.3	835.3	878.1
152.5°	627.6	656.9	725.6	818.7	853.5
155°	649.0	672.7	724.4	796.7	822.2
157.5°	667.8	686.2	724.6	781.3	798.4
160°	679.8	695.2	725.4	772.2	785.0
162.5°	690.2	702.7	726.1	764.7	773.8
165°	704.0	712.2	727.2	756.2	759.8
167.5°	715.1	719.9	728.2	749.6	751.1
170°	722.6	724.4	728.2	745.9	745.9
172.5°	727.1	727.4	728.9	742.1	742.1
175°	731.9	731.0	728.2	738.4	736.6
177.5°	733.9	732.5	728.7	734.7	733.2
180°	731.0	731.0	731.0	731.0	731.0

(END OF REPORT)