

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: P521974

Luminaire Tested: **SQ4-WB-125U-050D-93050-1D-UNV-STD-W-4 (4000K)**

Issue Date: 5/5/2021

Test Information

Test Method: LM-79-08
Report Number: P521974
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-125U-050D-93050-1D-UNV-STD-W-4 (4000K)
Description: CORELITE SQ4 SUSPENDED LED LUMINAIRE WITH WHITE BAFFLE
DOWNLIGHT 500 LUMENS PER FOOT
UPLIGHT 1250 LUMENS PER FOOT
Light Source: 3000K/5000K CCT, 90 CRI LEDS, TUNED TO 4000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

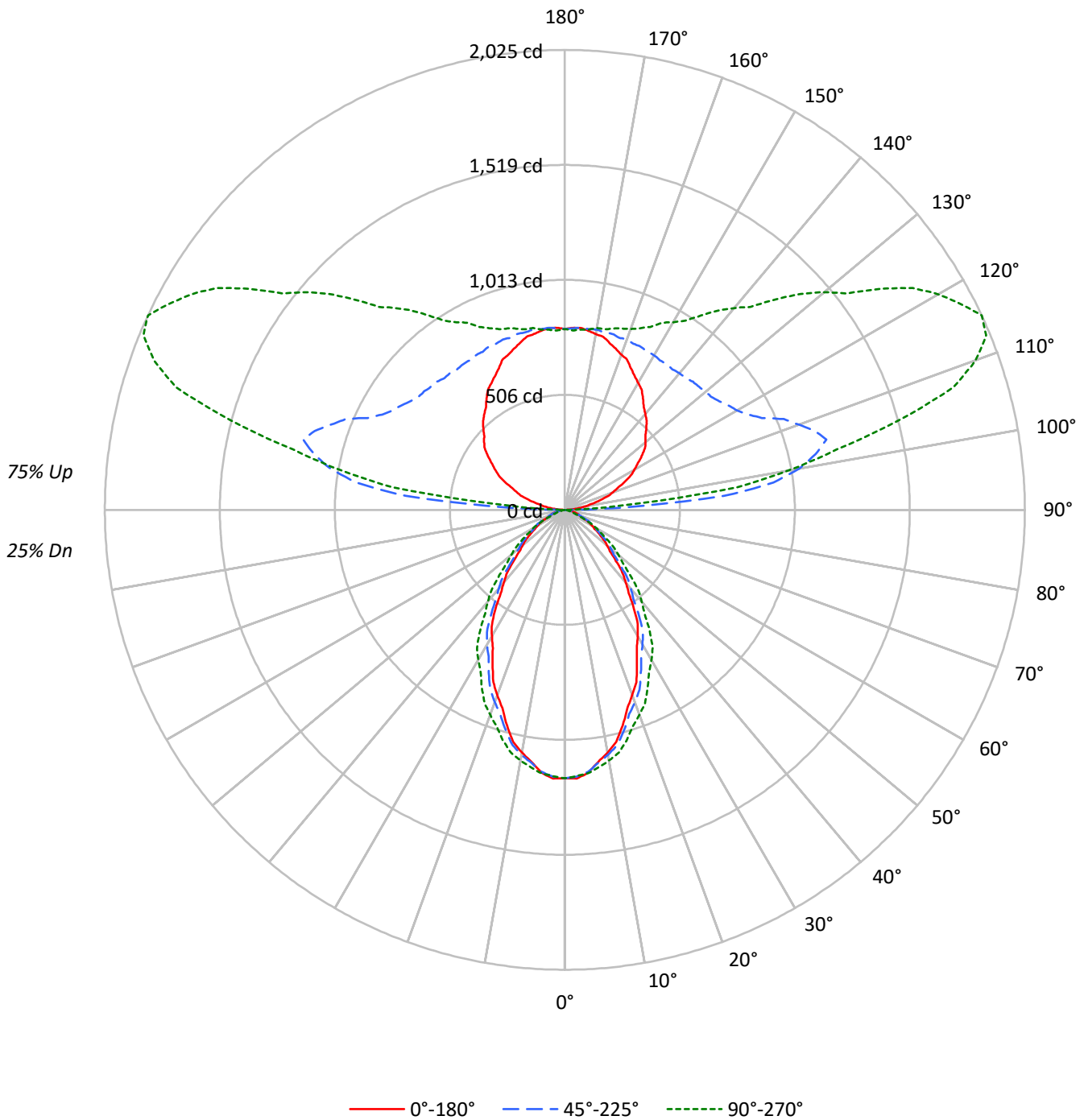
Lumens per Lamp: N/A
Luminaire Lumens: 6876.7 lumens
Efficiency: N/A
Efficacy: 110.6 lumens/watt
Spacing Criteria (0/90/45): 0.89 / 1 / 1.02
Luminous Opening: Rectangular (W 0.29' x L: 4' x H: 0')
CIE Type: Semi-Indirect

Input Watts (W): 62.2
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	101	101	101	101	90	90	90	90	69	69	69	51	51	51	33	33	33	25
1	93	89	85	82	83	79	76	74	62	60	58	45	44	43	30	30	29	22
2	85	78	73	68	76	70	65	61	55	52	49	40	39	37	27	26	25	20
3	78	69	63	57	69	62	56	52	49	45	42	36	34	32	25	23	22	17
4	71	62	54	49	64	55	49	44	44	39	36	33	30	28	22	21	20	15
5	66	55	48	42	58	50	43	38	39	35	31	30	27	24	21	19	18	14
6	61	49	42	37	54	45	38	34	35	31	28	27	24	22	19	17	16	12
7	56	45	37	32	50	40	34	30	32	28	24	25	22	19	17	16	14	11
8	52	41	33	29	46	37	31	26	29	25	22	23	20	17	16	14	13	10
9	48	37	30	25	43	34	28	23	27	23	20	21	18	16	15	13	12	10
10	45	34	27	23	40	31	25	21	25	21	18	19	16	14	14	12	11	9

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	10902	10902	10902
5°	10766	10728	10790
10°	10171	10263	10502
15°	9389	9608	10039
20°	8527	8847	9432
25°	7648	8065	8788
30°	6838	7286	8120
35°	5980	6412	7329
40°	5033	5433	6345
45°	4153	4512	5297
50°	3468	3781	4414
55°	2944	3244	3645
60°	2517	2812	2908
65°	2004	2366	1880
70°	1775	1845	1146
75°	1643	1497	702
80°	1514	1376	606
85°	1376	1260	498



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	108.4	1.6
10°-20°	281.9	4.1
20°-30°	365.2	5.3
30°-40°	357.6	5.2
40°-50°	273.7	4.0
50°-60°	182.4	2.7
60°-70°	99.5	1.4
70°-80°	41.5	0.6
80°-90°	11.7	0.2
90°-100°	410.4	6.0
100°-110°	991.9	14.4
110°-120°	1057.9	15.4
120°-130°	856.8	12.5
130°-140°	663.4	9.6
140°-150°	506.1	7.4
150°-160°	366.3	5.3
160°-170°	225.6	3.3
170°-180°	76.4	1.1
0°-30°	755.4	11.0
0°-40°	1113.0	16.2
0°-60°	1569.1	22.8
0°-90°	1721.8	25.0
90°-120°	2460.2	35.8
90°-150°	4486.5	65.2
90°-180°	5155.0	75.0
0°-180°	6876.7	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1182	1182	1182	1182	1182	
5°	1162	1151	1158	1161	1165	108
15°	983	980	1006	1033	1051	275
25°	751	753	792	827	863	346
35°	531	534	569	608	651	330
45°	318	324	346	372	406	248
55°	183	191	202	209	227	166
65°	92	99	108	95	86	95
75°	46	46	42	29	20	49
85°	13	13	12	8	5	14
90°	0	0	0	0	0	2
95°	40	205	703	457	320	45
105°	158	274	1192	1542	1523	167
115°	290	371	958	1816	2025	287
125°	413	476	831	1444	1696	369
135°	508	567	798	1139	1310	392
145°	600	645	782	968	1044	375
155°	688	718	792	857	889	318
165°	760	772	803	815	826	215
175°	804	801	804	798	796	76
180°	796	796	796	796	796	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1181.6	1181.6	1181.6	1181.6	1181.6
2.5°	1184.5	1174.0	1176.6	1176.6	1173.3
5°	1162.4	1150.8	1158.3	1161.0	1165.0
7.5°	1119.3	1110.5	1124.2	1134.3	1142.5
10°	1085.7	1078.1	1095.5	1110.3	1121.0
12.5°	1046.7	1040.3	1062.0	1081.8	1095.7
15°	983.0	979.5	1005.9	1033.2	1051.0
17.5°	914.9	913.2	943.4	975.4	998.1
20°	868.5	867.9	901.1	934.4	960.7
22.5°	821.6	822.7	857.6	892.2	922.2
25°	751.3	753.3	792.2	826.8	863.3
27.5°	686.3	687.2	727.4	763.9	802.8
30°	641.9	644.4	683.9	721.6	762.2
32.5°	597.5	600.4	639.1	678.1	719.4
35°	530.9	533.5	569.3	607.6	650.7
37.5°	462.3	465.7	497.5	533.8	576.1
40°	417.9	423.0	451.1	485.2	526.8
42.5°	375.2	381.5	407.5	439.9	477.4
45°	318.3	324.4	345.8	372.0	406.0
47.5°	269.4	276.4	292.8	315.4	344.4
50°	241.6	248.2	263.4	280.1	307.5
52.5°	217.1	223.7	237.3	250.1	273.4
55°	183.0	190.6	201.7	209.3	226.6
57.5°	155.0	162.3	171.1	174.6	185.0
60°	136.4	144.5	152.4	152.0	157.6
62.5°	119.4	126.2	134.2	128.7	129.0
65°	91.8	99.4	108.4	94.7	86.1
67.5°	74.1	75.8	85.0	66.0	55.8
70°	65.8	65.8	68.4	51.1	42.5
72.5°	58.0	58.0	55.6	41.6	32.6
75°	46.1	46.1	42.0	28.8	19.7
77.5°	35.6	35.2	32.1	21.5	14.3
80°	28.5	28.5	25.9	17.0	11.4
82.5°	22.3	22.3	20.1	13.3	8.5
85°	13.0	13.0	11.9	7.7	4.7
87.5°	4.6	4.6	4.1	2.5	2.1
90°	0.0	0.0	0.0	0.0	0.0
92.5°	13.5	111.1	261.7	127.2	86.3
95°	40.5	205.3	703.1	457.2	320.4
97.5°	71.8	227.5	926.1	892.2	765.9
100°	96.1	241.2	1048.8	1107.2	1003.3
102.5°	119.0	253.6	1129.8	1286.2	1224.5
105°	158.5	273.9	1192.1	1542.4	1522.6
107.5°	197.3	297.9	1155.4	1748.0	1794.5
110°	224.3	318.2	1096.0	1836.6	1924.0

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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	251.2	338.6	1043.4	1858.2	2007.6
115°	290.0	370.8	957.8	1815.7	2025.1
117.5°	328.5	404.6	907.5	1718.1	1963.4
120°	354.1	425.0	875.1	1641.5	1898.7
122.5°	381.1	446.7	854.9	1563.1	1816.4
125°	413.1	475.8	831.3	1444.1	1696.3
127.5°	444.8	503.8	814.8	1343.2	1564.8
130°	463.7	521.4	809.4	1273.0	1490.6
132.5°	481.2	541.6	801.3	1222.3	1407.0
135°	507.5	566.9	797.6	1138.7	1310.2
137.5°	532.5	592.2	785.8	1082.1	1211.4
140°	551.4	605.8	785.8	1041.4	1160.1
142.5°	570.3	624.7	779.0	1005.9	1106.1
145°	600.3	644.8	782.4	967.9	1043.8
147.5°	628.3	671.5	780.4	924.1	986.8
150°	645.8	683.7	785.8	904.9	954.4
152.5°	664.7	701.3	784.4	884.6	928.8
155°	688.0	717.6	792.5	857.3	888.6
157.5°	716.0	741.4	790.8	846.9	865.4
160°	726.8	748.2	797.6	833.3	846.5
162.5°	744.3	763.1	794.9	829.1	837.0
165°	760.5	772.0	802.6	814.7	826.2
167.5°	780.4	788.0	800.6	813.8	814.1
170°	785.8	790.7	806.0	804.5	812.7
172.5°	795.2	798.8	802.0	805.6	800.6
175°	804.3	801.0	804.3	797.5	795.9
177.5°	802.6	802.6	799.9	797.1	790.5
180°	795.9	795.9	795.9	795.9	795.9

(END OF REPORT)