

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: P519460

Luminaire Tested: **SQ4-WB-125U-050D-840-1D-UNV-STD-W-4**

Issue Date: 4/29/2021

Test Information

Test Method: LM-79-2019
Report Number: P519460
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-050D-840-1D-UNV-STD-W-4
Description: CORELITE SQ4 SUSPENDED LED LUMINAIRE WITH WHITE BAFFLE
DOWNLIGHT 500 LUMENS PER FOOT
UPLIGHT 1250 LUMENS PER FOOT
Light Source: 4000K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

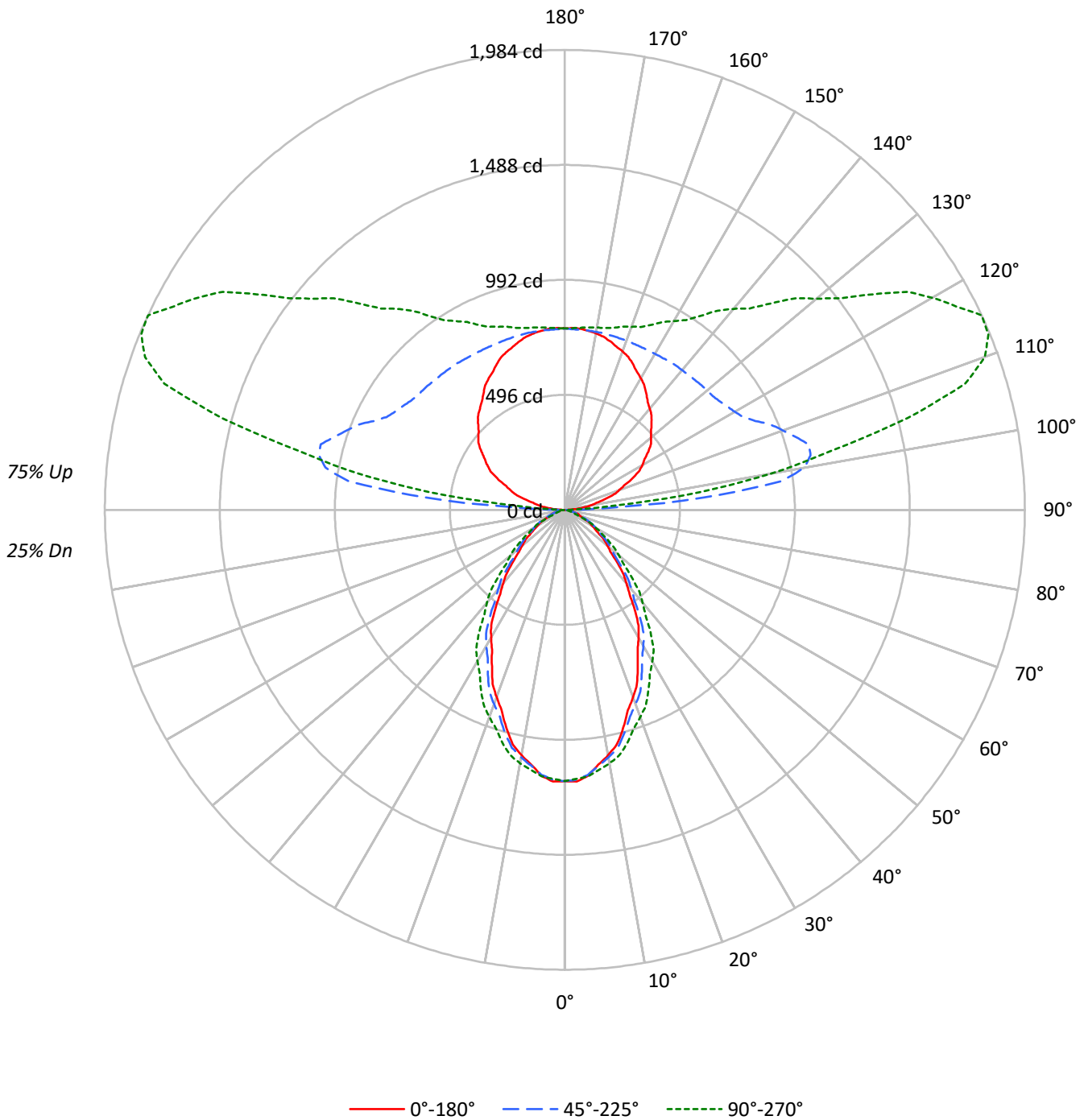
Lumens per Lamp: N/A
Luminaire Lumens: 6756.7 lumens
Efficiency: N/A
Efficacy: 141.1 lumens/watt
Spacing Criteria (0/90/45): 0.89 / 1 / 1.02
Luminous Opening: Rectangular (W 0.29' x L: 4' x H: 0')
CIE Type: Semi-Indirect

Input Watts (W): 47.9
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	70	70	70	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	62	55	52	49	41	39	37	27	26	26	20
3	78	69	63	57	69	62	57	52	49	45	42	36	34	32	25	24	22	17
4	71	62	54	49	64	55	49	45	44	39	36	33	30	28	23	21	20	16
5	66	55	48	42	59	50	43	38	39	35	31	30	27	24	21	19	18	14
6	61	49	42	37	54	45	38	34	36	31	28	27	24	22	19	17	16	13
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	30	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	41	31	25	21	25	21	18	19	16	14	14	12	11	9

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	10797	10797	10797
5°	10663	10625	10686
10°	10074	10165	10401
15°	9300	9515	9942
20°	8445	8763	9342
25°	7575	7987	8704
30°	6772	7216	8041
35°	5922	6350	7258
40°	4985	5380	6283
45°	4114	4469	5247
50°	3435	3745	4371
55°	2916	3214	3610
60°	2493	2786	2880
65°	1984	2342	1860
70°	1759	1829	1136
75°	1629	1483	695
80°	1498	1365	600
85°	1355	1249	487



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	107.3	1.6
10°-20°	279.2	4.1
20°-30°	361.6	5.4
30°-40°	354.1	5.2
40°-50°	271.1	4.0
50°-60°	180.6	2.7
60°-70°	98.6	1.5
70°-80°	41.1	0.6
80°-90°	13.5	0.2
90°-100°	365.9	5.4
100°-110°	985.7	14.6
110°-120°	1034.5	15.3
120°-130°	839.4	12.4
130°-140°	658.3	9.7
140°-150°	505.4	7.5
150°-160°	363.4	5.4
160°-170°	222.0	3.3
170°-180°	74.9	1.1
0°-30°	748.2	11.1
0°-40°	1102.3	16.3
0°-60°	1554.0	23.0
0°-90°	1707.1	25.3
90°-120°	2386.1	35.3
90°-150°	4389.3	65.0
90°-180°	5050.0	74.7
0°-180°	6756.7	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1170	1170	1170	1170	1170	
5°	1151	1140	1147	1150	1154	107
15°	974	970	996	1023	1041	272
25°	744	746	785	819	855	342
35°	526	528	564	602	644	327
45°	315	321	342	368	402	246
55°	181	189	200	207	224	164
65°	91	98	107	94	85	94
75°	46	46	42	29	20	49
85°	13	13	12	8	5	14
90°	2	6	12	13	13	5
95°	56	199	600	307	212	58
105°	182	284	1090	1631	1530	192
115°	322	394	908	1754	1984	317
125°	439	505	815	1378	1621	392
135°	529	590	792	1111	1258	408
145°	612	660	782	950	1020	384
155°	694	720	775	853	880	320
165°	753	762	778	809	813	212
175°	783	782	779	790	788	74
180°	782	782	782	782	782	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1170.3	1170.3	1170.3	1170.3	1170.3
2.5°	1173.1	1162.7	1165.3	1165.3	1162.0
5°	1151.3	1139.7	1147.2	1149.8	1153.8
7.5°	1108.5	1099.8	1113.4	1123.4	1131.5
10°	1075.3	1067.7	1085.0	1099.6	1110.2
12.5°	1036.7	1030.3	1051.7	1071.4	1085.1
15°	973.6	970.1	996.2	1023.3	1040.9
17.5°	906.1	904.4	934.4	966.0	988.5
20°	860.1	859.6	892.5	925.4	951.5
22.5°	813.7	814.8	849.3	883.6	913.3
25°	744.1	746.1	784.6	818.8	855.0
27.5°	679.7	680.6	720.4	756.5	795.1
30°	635.7	638.2	677.3	714.7	754.8
32.5°	591.8	594.7	632.9	671.6	712.5
35°	525.8	528.3	563.8	601.8	644.4
37.5°	457.8	461.3	492.8	528.6	570.6
40°	413.9	418.9	446.7	480.5	521.7
42.5°	371.6	377.8	403.6	435.7	472.8
45°	315.3	321.3	342.5	368.4	402.1
47.5°	266.8	273.7	290.0	312.3	341.1
50°	239.3	245.8	260.9	277.4	304.5
52.5°	215.1	221.6	235.0	247.7	270.8
55°	181.3	188.8	199.8	207.3	224.4
57.5°	153.5	160.8	169.5	172.9	183.2
60°	135.1	143.1	151.0	150.6	156.1
62.5°	118.2	125.0	132.9	127.5	127.8
65°	90.9	98.4	107.3	93.8	85.2
67.5°	73.4	75.0	84.2	65.4	55.3
70°	65.2	65.2	67.8	50.6	42.1
72.5°	57.4	57.4	55.0	41.2	32.2
75°	45.7	45.7	41.6	28.6	19.5
77.5°	35.2	34.8	31.8	21.3	14.2
80°	28.2	28.2	25.7	16.8	11.3
82.5°	22.1	22.1	19.9	13.1	8.4
85°	12.8	12.8	11.8	7.6	4.6
87.5°	4.9	5.7	6.5	5.0	4.6
90°	2.0	5.9	12.0	13.0	13.0
92.5°	24.3	85.9	169.8	81.7	56.8
95°	55.8	199.0	599.9	306.8	212.2
97.5°	89.1	227.8	940.8	786.0	592.7
100°	114.6	239.3	1049.3	1097.8	910.8
102.5°	139.3	255.4	1085.1	1331.4	1177.8
105°	182.3	283.7	1090.1	1630.9	1530.5
107.5°	223.0	313.4	1043.7	1784.8	1810.7
110°	250.1	335.8	1001.4	1832.6	1927.1



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	278.8	358.3	960.8	1822.0	1977.3
115°	321.9	394.0	907.8	1754.0	1983.9
117.5°	361.1	428.7	866.7	1645.4	1901.4
120°	386.6	451.9	846.0	1567.4	1830.5
122.5°	408.9	473.4	830.8	1487.7	1750.0
125°	439.4	504.7	815.1	1377.6	1621.2
127.5°	468.7	533.0	805.1	1280.6	1498.1
130°	486.3	550.6	801.1	1225.0	1416.0
132.5°	503.8	567.3	797.2	1176.0	1351.4
135°	529.1	590.5	792.2	1111.4	1258.5
137.5°	553.2	612.1	789.6	1056.6	1177.4
140°	570.0	626.5	787.2	1022.8	1132.0
142.5°	587.5	640.1	785.6	991.4	1083.3
145°	611.8	659.6	782.2	950.2	1020.4
147.5°	638.1	679.6	778.8	915.6	970.7
150°	655.7	691.7	777.2	893.9	939.6
152.5°	671.6	703.0	776.4	876.1	913.3
155°	694.5	719.9	775.2	852.6	879.9
157.5°	714.7	734.3	775.4	836.0	854.4
160°	727.4	744.0	776.2	826.4	840.0
162.5°	738.6	752.0	777.0	818.3	828.0
165°	753.3	762.1	778.2	809.2	813.1
167.5°	765.3	770.3	779.2	802.2	803.7
170°	773.2	775.2	779.2	798.2	798.2
172.5°	778.0	778.4	780.0	794.2	794.2
175°	783.2	782.2	779.2	790.1	788.2
177.5°	785.4	783.8	779.8	786.2	784.6
180°	782.2	782.2	782.2	782.2	782.2

(END OF REPORT)