

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: P519456

Luminaire Tested: **SQ4-WB-125U-050D-835-1D-UNV-STD-W-4**

Issue Date: 4/29/2021

Test Information

Test Method: LM-79-2019
Report Number: P519456
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-835-1D-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: 3500K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

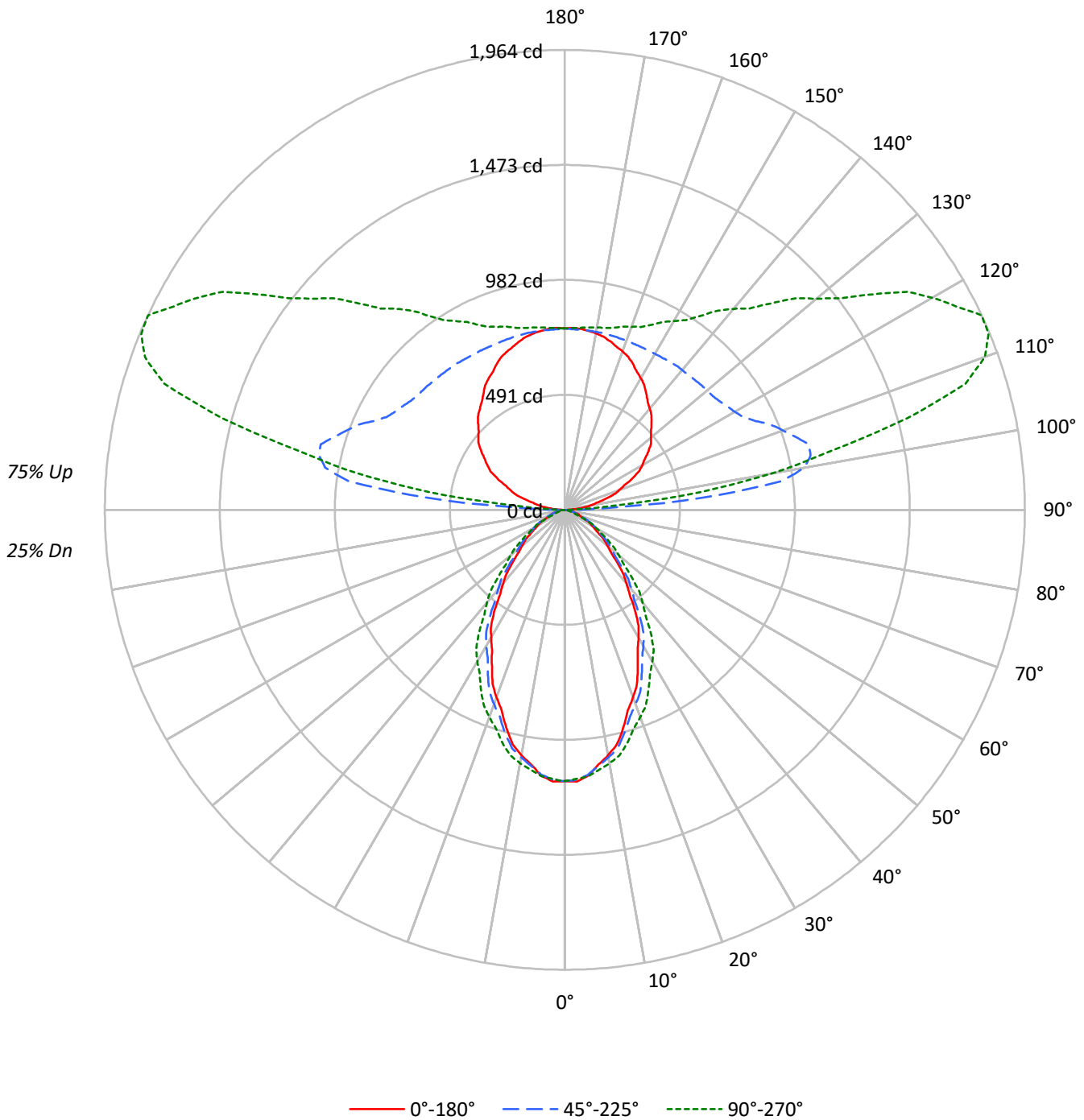
Lumens per Lamp: N/A
Luminaire Lumens: 6689.5 lumens
Efficiency: N/A
Efficacy: 139.7 lumens/watt
Spacing Criteria (0/90/45): 0.89 / 1 / 1.02
Luminous Opening: Rectangular (W 0.29' x L: 4' x H: 0')
CIE Type: Semi-Indirect

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°	10689	10689	10689
5°	10556	10518	10579
10°	9974	10064	10297
15°	9207	9421	9843
20°	8360	8675	9249
25°	7499	7908	8617
30°	6705	7144	7961
35°	5864	6287	7186
40°	4936	5327	6221
45°	4072	4425	5194
50°	3400	3707	4328
55°	2887	3182	3574
60°	2467	2759	2851
65°	1965	2321	1843
70°	1743	1810	1125
75°	1611	1469	688
80°	1488	1350	595
85°	1344	1239	487



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	106.3	1.6
10°-20°	276.4	4.1
20°-30°	358.0	5.4
30°-40°	350.6	5.2
40°-50°	268.4	4.0
50°-60°	178.8	2.7
60°-70°	97.6	1.5
70°-80°	40.7	0.6
80°-90°	13.3	0.2
90°-100°	362.3	5.4
100°-110°	975.9	14.6
110°-120°	1024.2	15.3
120°-130°	831.1	12.4
130°-140°	651.8	9.7
140°-150°	500.4	7.5
150°-160°	359.8	5.4
160°-170°	219.8	3.3
170°-180°	74.1	1.1
0°-30°	740.7	11.1
0°-40°	1091.3	16.3
0°-60°	1538.6	23.0
0°-90°	1690.1	25.3
90°-120°	2362.3	35.3
90°-150°	4345.6	65.0
90°-180°	4999.0	74.7
0°-180°	6689.5	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1159	1159	1159	1159	1159	
5°	1140	1128	1136	1138	1142	106
15°	964	960	986	1013	1030	269
25°	737	739	777	811	846	339
35°	521	523	558	596	638	324
45°	312	318	339	365	398	243
55°	180	187	198	205	222	163
65°	90	97	106	93	84	94
75°	45	45	41	28	19	48
85°	13	13	12	8	5	14
90°	2	6	12	13	13	5
95°	55	197	594	304	210	58
105°	180	281	1079	1615	1515	190
115°	319	390	899	1736	1964	314
125°	435	500	807	1364	1605	389
135°	524	585	784	1100	1246	404
145°	606	653	774	941	1010	380
155°	688	713	768	844	871	317
165°	746	754	770	801	805	210
175°	775	774	772	782	780	74
180°	774	774	774	774	774	

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CATALOG NUMBER: SQ4-WB-125U-050D-835-1D-UNV-STD-W-4

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1158.6	1158.6	1158.6	1158.6	1158.6
2.5°	1161.5	1151.1	1153.7	1153.7	1150.5
5°	1139.8	1128.4	1135.7	1138.4	1142.3
7.5°	1097.5	1088.8	1102.3	1112.2	1120.3
10°	1064.6	1057.1	1074.2	1088.7	1099.1
12.5°	1026.3	1020.1	1041.3	1060.7	1074.3
15°	963.9	960.4	986.3	1013.1	1030.5
17.5°	897.1	895.4	925.1	956.4	978.6
20°	851.5	851.0	883.6	916.2	942.0
22.5°	805.6	806.7	840.9	874.8	904.2
25°	736.6	738.6	776.8	810.7	846.5
27.5°	672.9	673.8	713.3	749.0	787.2
30°	629.4	631.9	670.6	707.6	747.3
32.5°	585.9	588.7	626.6	664.9	705.4
35°	520.6	523.1	558.2	595.8	638.0
37.5°	453.3	456.7	487.8	523.4	564.9
40°	409.8	414.7	442.3	475.8	516.5
42.5°	367.9	374.0	399.6	431.3	468.1
45°	312.1	318.1	339.1	364.8	398.1
47.5°	264.2	271.0	287.1	309.2	337.7
50°	236.9	243.4	258.3	274.6	301.5
52.5°	212.9	219.4	232.6	245.3	268.1
55°	179.5	186.9	197.8	205.3	222.2
57.5°	152.0	159.2	167.8	171.2	181.4
60°	133.7	141.7	149.5	149.1	154.5
62.5°	117.0	123.8	131.6	126.2	126.5
65°	90.0	97.4	106.3	92.8	84.4
67.5°	72.7	74.3	83.4	64.7	54.7
70°	64.6	64.6	67.1	50.1	41.7
72.5°	56.8	56.8	54.5	40.8	31.9
75°	45.2	45.2	41.2	28.3	19.3
77.5°	34.9	34.5	31.5	21.1	14.0
80°	28.0	28.0	25.4	16.7	11.2
82.5°	21.9	21.9	19.7	13.0	8.3
85°	12.7	12.7	11.7	7.6	4.6
87.5°	4.9	5.6	6.4	5.0	4.6
90°	2.0	5.8	11.8	12.8	12.8
92.5°	24.1	85.0	168.1	80.9	56.2
95°	55.2	197.0	593.9	303.7	210.1
97.5°	88.2	225.6	931.5	778.2	586.8
100°	113.4	236.9	1038.8	1086.9	901.7
102.5°	137.9	252.9	1074.3	1318.1	1166.1
105°	180.5	280.9	1079.3	1614.6	1515.3
107.5°	220.8	310.3	1033.3	1767.0	1792.7
110°	247.6	332.5	991.5	1814.4	1907.9



TEST NUMBER: P519456

CATALOG NUMBER: SQ4-WB-125U-050D-835-1D-UNV-STD-W-4

CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	276.0	354.7	951.2	1803.9	1957.7
115°	318.6	390.0	898.7	1736.5	1964.2
117.5°	357.5	424.5	858.1	1629.0	1882.5
120°	382.8	447.4	837.6	1551.8	1812.2
122.5°	404.9	468.7	822.6	1472.9	1732.5
125°	435.1	499.7	807.0	1363.9	1605.1
127.5°	464.1	527.7	797.1	1267.8	1483.1
130°	481.4	545.1	793.2	1212.8	1401.8
132.5°	498.8	561.7	789.2	1164.3	1337.9
135°	523.8	584.6	784.3	1100.3	1246.0
137.5°	547.7	606.0	781.7	1046.1	1165.7
140°	564.3	620.2	779.4	1012.7	1120.7
142.5°	581.7	633.7	777.8	981.5	1072.5
145°	605.7	653.0	774.4	940.7	1010.2
147.5°	631.8	672.9	771.1	906.5	961.1
150°	649.1	684.8	769.5	885.0	930.3
152.5°	664.9	696.0	768.7	867.4	904.2
155°	687.6	712.7	767.5	844.1	871.1
157.5°	707.5	727.0	767.7	827.7	845.8
160°	720.2	736.6	768.5	818.1	831.6
162.5°	731.2	744.5	769.3	810.2	819.8
165°	745.8	754.5	770.5	801.1	805.0
167.5°	757.6	762.7	771.5	794.2	795.7
170°	765.5	767.5	771.5	790.2	790.2
172.5°	770.3	770.7	772.2	786.3	786.3
175°	775.4	774.4	771.5	782.3	780.3
177.5°	777.6	776.0	772.1	778.3	776.8
180°	774.4	774.4	774.4	774.4	774.4

(END OF REPORT)