

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: P519256

Luminaire Tested: **SQ4-WB-075U-125D-940-1D-UNV-STD-W-4**

Issue Date: 4/29/2021

Test Information

Test Method: LM-79-2019
Report Number: P519256
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-940-1D-UNV-STD-W-4
Description: CORELITE SQ4 SUSPENDED LED LUMINAIRE WITH WHITE BAFFLE
DOWNLIGHT 1250 LUMENS PER FOOT
UPLIGHT 750 LUMENS PER FOOT
Light Source: 4000K CCT, 90 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

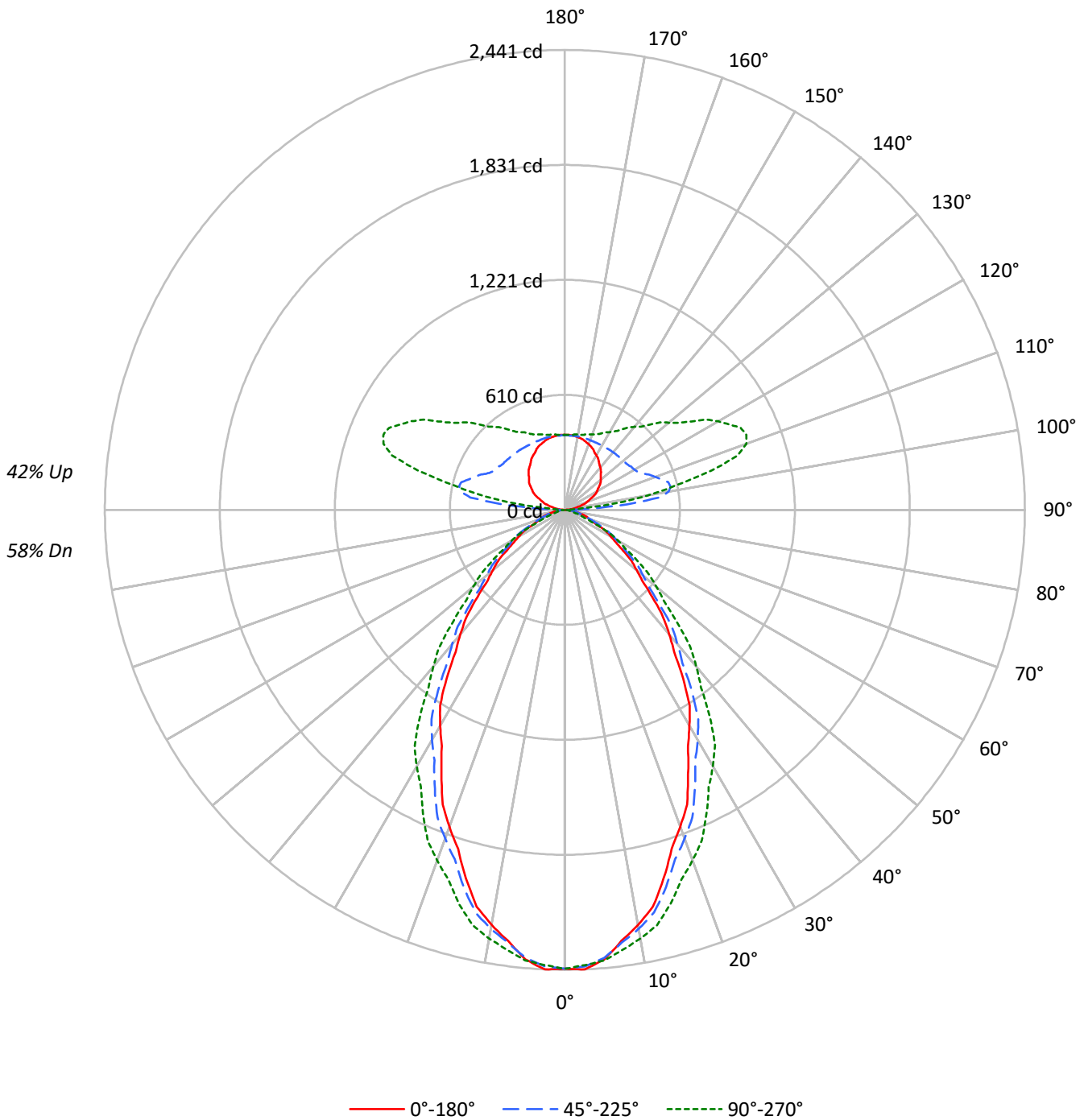
Lumens per Lamp: N/A
Luminaire Lumens: 6137.7 lumens
Efficiency: N/A
Efficacy: 98.8 lumens/watt
Spacing Criteria (0/90/45): 0.89 / 1 / 1.02
Luminous Opening: Rectangular (W 0.29' x L: 4' x H: 0')
CIE Type: General Diffuse

Input Watts (W): 62.1
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



TEST NUMBER: P519256
CATALOG NUMBER: SQ4-WB-075U-125D-940-1D-UNV-STD-W-4

Luminous Intensity Polar Plot





TEST NUMBER: P519256

CATALOG NUMBER: SQ4-WB-075U-125D-940-1D-UNV-STD-W-4

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	109	109	109	109	102	102	102	102	88	88	88	75	75	75	63	63	63	58				58
1	101	97	94	90	94	91	88	85	79	77	75	68	66	65	58	57	56	51				51
2	93	86	81	76	87	81	76	72	71	67	64	61	59	57	53	51	49	45				45
3	86	77	70	65	80	72	67	62	64	59	56	56	52	50	48	46	44	40				40
4	79	69	62	57	74	65	59	54	58	53	49	51	47	44	44	41	39	36				36
5	73	63	55	50	68	59	52	47	52	47	43	46	42	39	40	37	35	32				32
6	68	57	49	44	64	54	47	42	48	42	38	42	38	35	37	34	31	29				29
7	63	52	44	39	59	49	42	38	44	39	35	39	35	32	34	31	29	26				26
8	59	48	40	35	55	45	39	34	40	35	31	36	32	29	32	29	26	24				24
9	55	44	37	32	52	42	35	31	37	32	29	34	29	26	30	26	24	22				22
10	52	41	34	29	49	39	32	28	35	30	26	31	27	24	28	25	22	20				20

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	22469	22469	22469
5°	22188	22109	22238
10°	20963	21153	21644
15°	19352	19801	20689
20°	17574	18235	19441
25°	15763	16622	18112
30°	14094	15016	16735
35°	12324	13215	15105
40°	10373	11197	13076
45°	8561	9299	10917
50°	7148	7791	9096
55°	6067	6687	7512
60°	5185	5798	5993
65°	4128	4875	3873
70°	3661	3806	2363
75°	3390	3087	1447
80°	3124	2837	1249
85°	2826	2604	1016



TEST NUMBER: P519256

CATALOG NUMBER: SQ4-WB-075U-125D-940-1D-UNV-STD-W-4

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	223.4	3.6
10°-20°	581.0	9.5
20°-30°	752.6	12.3
30°-40°	737.0	12.0
40°-50°	564.1	9.2
50°-60°	375.9	6.1
60°-70°	205.1	3.3
70°-80°	85.5	1.4
80°-90°	25.2	0.4
90°-100°	187.4	3.1
100°-110°	515.5	8.4
110°-120°	532.1	8.7
120°-130°	426.3	6.9
130°-140°	334.8	5.5
140°-150°	256.6	4.2
150°-160°	184.5	3.0
160°-170°	112.8	1.8
170°-180°	38.0	0.6
0°-30°	1556.9	25.4
0°-40°	2293.9	37.4
0°-60°	3233.9	52.7
0°-90°	3549.6	57.8
90°-120°	1235.0	20.1
90°-150°	2252.7	36.7
90°-180°	2588.0	42.2
0°-180°	6137.7	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2435	2435	2435	2435	2435	
5°	2396	2372	2387	2393	2401	223
15°	2026	2019	2073	2129	2166	566
25°	1548	1552	1633	1704	1779	712
35°	1094	1099	1173	1252	1341	680
45°	656	669	713	767	837	512
55°	377	393	416	431	467	342
65°	189	205	223	195	177	197
75°	95	95	87	59	41	102
85°	27	27	25	16	10	29
90°	1	3	6	8	8	3
95°	28	102	331	142	90	29
105°	92	142	568	865	807	97
115°	163	199	456	907	1030	161
125°	225	256	413	699	819	201
135°	271	301	402	566	640	209
145°	314	335	396	482	519	197
155°	355	367	393	433	446	163
165°	384	389	395	411	413	108
175°	397	398	396	401	400	38
180°	397	397	397	397	397	

TEST NUMBER: P519256

CATALOG NUMBER: SQ4-WB-075U-125D-940-1D-UNV-STD-W-4

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2435.3	2435.3	2435.3	2435.3	2435.3
2.5°	2441.3	2419.5	2425.0	2424.9	2418.2
5°	2395.7	2371.7	2387.2	2392.7	2401.1
7.5°	2306.8	2288.7	2316.9	2337.8	2354.7
10°	2237.6	2221.9	2257.9	2288.3	2310.3
12.5°	2157.2	2144.1	2188.7	2229.5	2258.1
15°	2026.0	2018.7	2073.0	2129.4	2166.0
17.5°	1885.6	1882.1	1944.4	2010.2	2057.0
20°	1789.9	1788.8	1857.2	1925.7	1980.1
22.5°	1693.3	1695.6	1767.4	1838.7	1900.6
25°	1548.4	1552.5	1632.8	1703.9	1779.2
27.5°	1414.4	1416.2	1499.2	1574.3	1654.6
30°	1322.9	1328.1	1409.5	1487.2	1570.8
32.5°	1231.4	1237.5	1317.1	1397.5	1482.8
35°	1094.2	1099.4	1173.3	1252.3	1341.1
37.5°	952.7	959.8	1025.4	1100.1	1187.4
40°	861.3	871.7	929.7	1000.0	1085.7
42.5°	773.2	786.2	839.9	906.6	983.9
45°	656.1	668.6	712.7	766.7	836.7
47.5°	555.2	569.7	603.5	650.0	709.7
50°	498.0	511.5	542.8	577.2	633.7
52.5°	447.5	461.1	489.0	515.5	563.6
55°	377.2	392.9	415.7	431.4	467.0
57.5°	319.5	334.5	352.6	359.7	381.3
60°	281.0	297.8	314.2	313.4	324.8
62.5°	246.0	260.2	276.5	265.2	265.9
65°	189.1	204.8	223.3	195.1	177.4
67.5°	152.8	156.1	175.2	136.1	115.0
70°	135.7	135.7	141.1	105.4	87.6
72.5°	119.5	119.5	114.6	85.7	67.1
75°	95.1	95.1	86.6	59.4	40.6
77.5°	73.3	72.5	66.3	44.3	29.5
80°	58.8	58.8	53.4	35.0	23.5
82.5°	45.9	45.9	41.5	27.3	17.5
85°	26.7	26.7	24.6	15.9	9.6
87.5°	9.6	10.1	9.7	6.6	5.8
90°	0.8	3.3	5.9	7.6	7.6
92.5°	11.7	49.8	86.4	33.2	27.2
95°	27.9	102.3	331.3	141.7	90.4
97.5°	45.5	113.4	505.6	389.6	274.9
100°	58.3	120.3	560.4	565.6	461.5
102.5°	70.5	128.5	574.6	701.8	606.2
105°	92.1	141.7	568.0	865.1	807.2
107.5°	112.8	158.0	535.7	945.1	962.2
110°	127.6	169.0	511.4	964.9	1024.5



TEST NUMBER: P519256

CATALOG NUMBER: SQ4-WB-075U-125D-940-1D-UNV-STD-W-4

CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	141.2	181.2	487.0	952.1	1042.7
115°	163.1	198.7	455.6	907.2	1029.5
117.5°	184.1	216.8	435.6	844.2	982.5
120°	196.9	228.4	426.9	796.9	939.9
122.5°	208.4	239.8	420.8	755.5	891.2
125°	224.8	256.2	413.3	699.2	819.1
127.5°	240.4	270.3	408.4	652.2	757.4
130°	248.5	279.1	405.7	624.3	720.2
132.5°	258.0	288.6	403.7	599.7	686.4
135°	271.3	301.1	401.5	565.5	639.9
137.5°	283.8	311.4	399.6	537.8	599.1
140°	293.3	318.9	399.0	519.4	574.8
142.5°	301.4	325.1	397.6	503.0	550.4
145°	313.6	335.1	395.6	481.8	519.0
147.5°	326.6	345.1	394.6	463.0	492.8
150°	334.7	351.3	393.9	452.7	475.9
152.5°	342.2	357.4	393.2	443.9	463.0
155°	355.0	366.6	393.0	433.1	445.5
157.5°	364.3	373.7	393.0	424.2	432.8
160°	371.1	378.5	393.0	419.4	426.0
162.5°	376.5	382.6	393.7	415.3	420.6
165°	383.7	388.7	394.7	410.9	413.3
167.5°	388.8	392.6	395.6	407.1	407.8
170°	392.2	394.7	395.6	405.7	405.7
172.5°	394.9	396.1	395.6	403.7	403.0
175°	397.3	398.1	395.6	400.6	399.8
177.5°	397.9	397.9	395.2	399.3	397.9
180°	397.3	397.3	397.3	397.3	397.3

(END OF REPORT)