

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: P519055

Luminaire Tested: **SQ4-WB-025U-125D-930-1D-UNV-STD-W-12**

Issue Date: 4/29/2021

Test Information

Test Method: LM-79-2019
Report Number: P519055
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1910-536-32, 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-025U-125D-930-1D-UNV-STD-W-12
Description: CORELITE SQ4 SUSPENDED LED LUMINAIRE WITH WHITE BAFFLE
DOWNLIGHT 1250 LUMENS PER FOOT
UPLIGHT 250 LUMENS PER FOOT
Light Source: 3000K CCT, 90 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

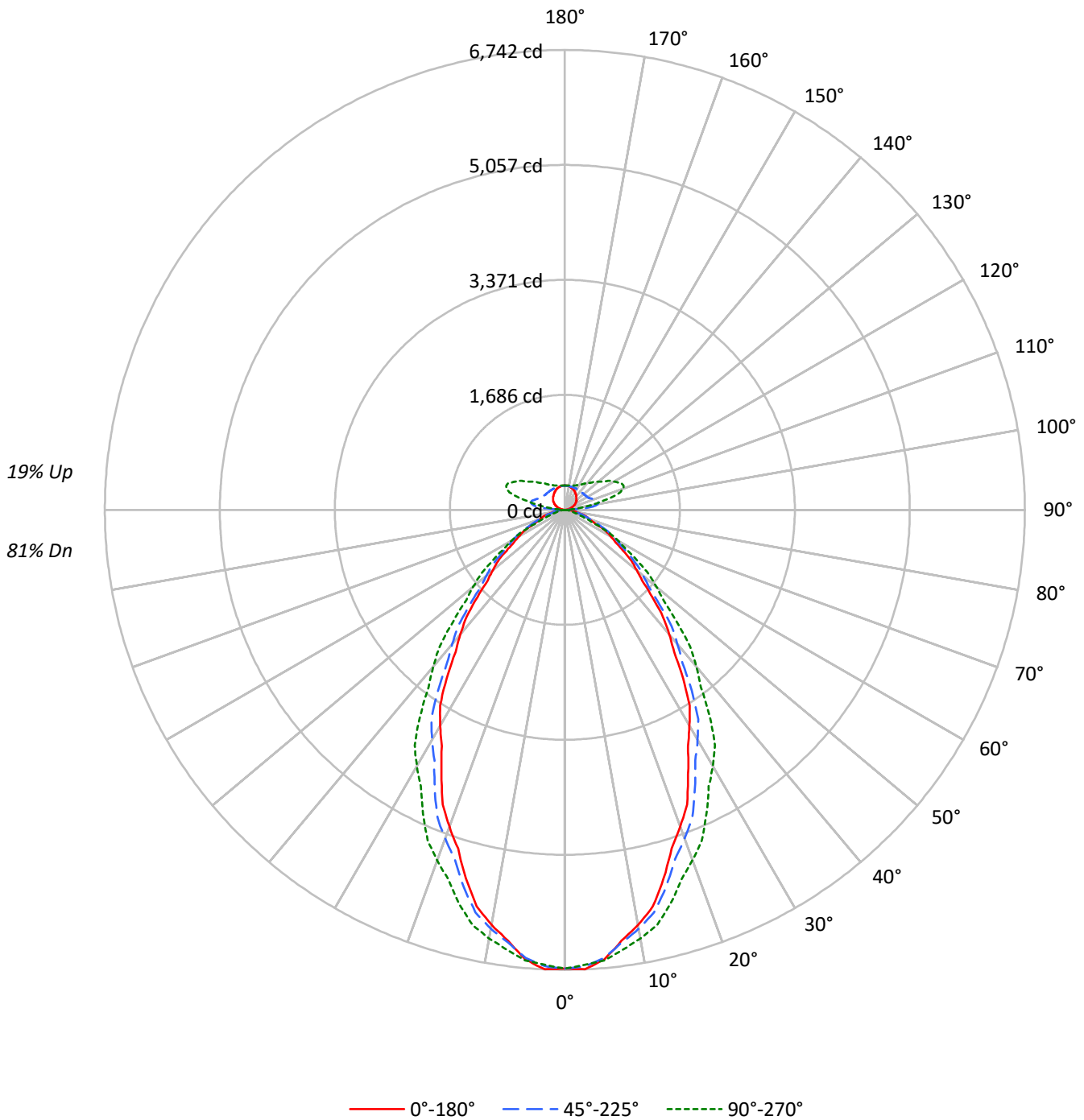
Lumens per Lamp: N/A
Luminaire Lumens: 12107.4 lumens
Efficiency: N/A
Efficacy: 77.5 lumens/watt
Spacing Criteria (0/90/45): 0.89 / 1 / 1.02
Luminous Opening: Rectangular (W 0.29' x L: 12' x H: 0')
CIE Type: Semi-Direct

Input Watts (W): 156.2
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	50	30	10	0	
RCR																						
0	115	115	115	115	110	110	110	110	101	101	101	92	92	92	85	85	85	81				
1	107	103	99	96	102	99	96	93	91	89	87	84	82	81	78	76	75	72				
2	99	92	87	82	94	89	84	79	82	78	75	76	73	70	71	68	66	63				
3	91	83	76	71	87	80	74	69	74	69	65	69	65	62	64	61	59	56				
4	85	75	67	62	81	72	66	61	68	62	58	63	59	55	59	55	52	50				
5	79	68	60	55	75	66	59	54	62	56	51	58	53	49	54	50	47	45				
6	73	62	54	49	70	60	53	48	57	51	46	53	48	44	50	46	43	40				
7	69	57	49	44	66	55	48	43	52	46	42	49	44	40	46	42	39	37				
8	64	52	45	40	62	51	44	39	48	42	38	46	40	37	43	39	35	34				
9	60	49	41	37	58	47	41	36	45	39	35	42	37	34	40	36	33	31				
10	57	45	38	34	55	44	37	33	42	36	32	40	35	31	38	33	30	28				

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	20682	20682	20682
5°	20424	20351	20470
10°	19296	19472	19923
15°	17814	18227	19044
20°	16176	16785	17896
25°	14509	15300	16672
30°	12973	13822	15404
35°	11345	12165	13904
40°	9548	10307	12036
45°	7880	8560	10049
50°	6579	7172	8372
55°	5585	6155	6914
60°	4774	5336	5518
65°	3801	4488	3564
70°	3370	3502	2176
75°	3120	2840	1332
80°	2874	2612	1149
85°	2604	2396	939



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	616.8	5.1
10°-20°	1604.4	13.3
20°-30°	2078.2	17.2
30°-40°	2035.1	16.8
40°-50°	1557.7	12.9
50°-60°	1038.0	8.6
60°-70°	566.4	4.7
70°-80°	236.0	1.9
80°-90°	68.7	0.6
90°-100°	173.4	1.4
100°-110°	455.8	3.8
110°-120°	472.7	3.9
120°-130°	379.1	3.1
130°-140°	297.5	2.5
140°-150°	228.3	1.9
150°-160°	164.5	1.4
160°-170°	100.6	0.8
170°-180°	34.0	0.3
0°-30°	4299.5	35.5
0°-40°	6334.6	52.3
0°-60°	8930.3	73.8
0°-90°	9801.5	81.0
90°-120°	1101.9	9.1
90°-150°	2006.9	16.6
90°-180°	2306.0	19.0
0°-180°	12107.4	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	6725	6725	6725	6725	6725	
5°	6616	6550	6592	6608	6631	615
15°	5595	5575	5725	5880	5981	1562
25°	4276	4287	4509	4706	4913	1966
35°	3022	3036	3240	3458	3703	1879
45°	1812	1846	1968	2117	2310	1413
55°	1042	1085	1148	1191	1290	944
65°	522	566	617	539	490	543
75°	263	263	239	164	112	280
85°	74	74	68	44	27	80
90°	2	7	18	9	9	6
95°	23	90	299	154	105	25
105°	82	124	504	765	714	87
115°	146	177	404	805	919	144
125°	203	228	367	621	732	180
135°	242	266	356	501	568	187
145°	280	298	351	427	461	176
155°	317	326	351	386	397	146
165°	342	346	351	365	369	97
175°	356	356	354	358	358	34
180°	356	356	356	356	356	

TEST NUMBER: P519055

CATALOG NUMBER: SQ4-WB-025U-125D-930-1D-UNV-STD-W-12

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	6725.0	6725.0	6725.0	6725.0	6725.0
2.5°	6741.6	6681.5	6696.7	6696.3	6677.8
5°	6615.9	6549.5	6592.2	6607.5	6630.6
7.5°	6370.3	6320.1	6398.1	6455.8	6502.5
10°	6179.1	6135.8	6235.2	6319.2	6379.8
12.5°	5957.2	5920.9	6044.0	6156.7	6235.8
15°	5594.9	5574.7	5724.7	5880.4	5981.4
17.5°	5207.1	5197.3	5369.4	5551.2	5680.4
20°	4942.7	4939.8	5128.6	5317.9	5468.0
22.5°	4676.0	4682.3	4880.7	5077.6	5248.4
25°	4275.8	4287.4	4508.9	4705.5	4913.2
27.5°	3905.8	3911.0	4140.1	4347.5	4569.1
30°	3653.2	3667.6	3892.2	4107.0	4337.8
32.5°	3400.6	3417.3	3637.2	3859.2	4094.6
35°	3021.7	3036.1	3240.1	3458.1	3703.3
37.5°	2631.0	2650.6	2831.7	3037.8	3279.0
40°	2378.4	2407.3	2567.3	2761.5	2998.1
42.5°	2135.3	2171.0	2319.4	2503.7	2717.2
45°	1811.8	1846.5	1968.2	2117.2	2310.5
47.5°	1533.3	1573.1	1666.7	1794.9	1960.0
50°	1375.1	1412.6	1499.0	1594.1	1749.9
52.5°	1235.8	1273.3	1350.3	1423.6	1556.3
55°	1041.7	1084.9	1147.9	1191.4	1289.5
57.5°	882.3	923.9	973.8	993.4	1052.9
60°	776.1	822.2	867.6	865.3	897.1
62.5°	679.3	718.5	763.7	732.4	734.2
65°	522.3	565.6	616.7	538.9	489.8
67.5°	422.0	431.2	483.9	375.8	317.5
70°	374.8	374.8	389.5	291.0	242.0
72.5°	329.9	329.9	316.3	236.7	185.3
75°	262.6	262.6	239.0	164.1	112.1
77.5°	202.4	200.1	183.0	122.4	81.4
80°	162.3	162.3	147.5	96.7	64.9
82.5°	126.9	126.9	114.5	75.5	48.4
85°	73.8	73.8	67.9	43.9	26.6
87.5°	26.4	27.3	27.3	15.9	13.6
90°	2.3	6.7	18.2	9.1	9.1
92.5°	9.6	46.1	102.2	45.2	29.2
95°	22.8	89.7	298.7	154.0	104.9
97.5°	39.7	98.5	447.0	355.5	261.8
100°	52.5	106.0	492.6	499.2	387.7
102.5°	63.4	113.3	505.4	621.8	526.3
105°	82.1	124.5	504.0	765.1	713.8
107.5°	101.3	140.5	475.3	839.5	852.0
110°	114.0	149.7	451.5	858.7	912.2



TEST NUMBER: P519055

CATALOG NUMBER: SQ4-WB-025U-125D-930-1D-UNV-STD-W-12

CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	126.8	160.7	429.7	846.6	928.6
115°	146.0	177.2	403.7	805.3	919.1
117.5°	164.7	193.2	385.9	748.1	874.4
120°	175.6	202.4	378.6	709.7	832.4
122.5°	186.5	213.3	373.1	671.4	792.3
125°	203.0	227.5	367.2	620.6	732.0
127.5°	216.2	241.2	362.1	579.6	673.7
130°	223.5	250.2	360.3	553.9	640.8
132.5°	230.8	257.5	358.5	531.8	609.8
135°	241.7	266.3	355.8	501.0	567.9
137.5°	253.1	277.2	355.3	477.9	532.7
140°	262.3	284.6	353.5	459.6	510.8
142.5°	269.6	290.1	353.5	446.6	490.8
145°	280.5	298.3	351.2	427.2	460.7
147.5°	291.5	308.8	351.2	411.1	438.8
150°	298.7	314.4	351.2	401.9	424.2
152.5°	306.0	318.1	351.2	394.5	411.4
155°	317.0	325.9	351.2	385.7	396.8
157.5°	325.2	333.7	351.2	377.8	385.9
160°	330.7	337.4	351.2	374.1	378.6
162.5°	336.1	341.1	351.2	370.5	374.9
165°	342.1	346.5	351.2	365.0	369.4
167.5°	347.6	349.8	353.5	362.6	364.4
170°	351.2	353.4	353.5	362.6	362.6
172.5°	353.0	353.5	353.5	360.7	359.0
175°	355.8	355.8	353.5	358.0	358.0
177.5°	355.8	355.8	353.9	357.5	355.8
180°	355.8	355.8	355.8	355.8	355.8

(END OF REPORT)