

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: P565054

Luminaire Tested: **SQ4-PW1-125U-100D-835-1D-UNV-STD-W-4**

Issue Date: 7/30/2021

Test Information

Test Method: LM-79-2019
Report Number: P565054
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1910-536-24, G2-2106-289-3)
Test Lab: INNOVATION CENTER
Issue Date: 7/30/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: CORELITE
Catalog Number: SQ4-PW1-125U-100D-835-1D-UNV-STD-W-4
Description: CORELITE SQ4 SUSPENDED LED LUMINAIRE WITH PERCEIVE WAVES CONTINUOUS LENS.
DOWNLIGHT 1000 LUMENS PER FOOT
UPLIGHT 1250 LUMENS PER FOOT
Light Source: 3500K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

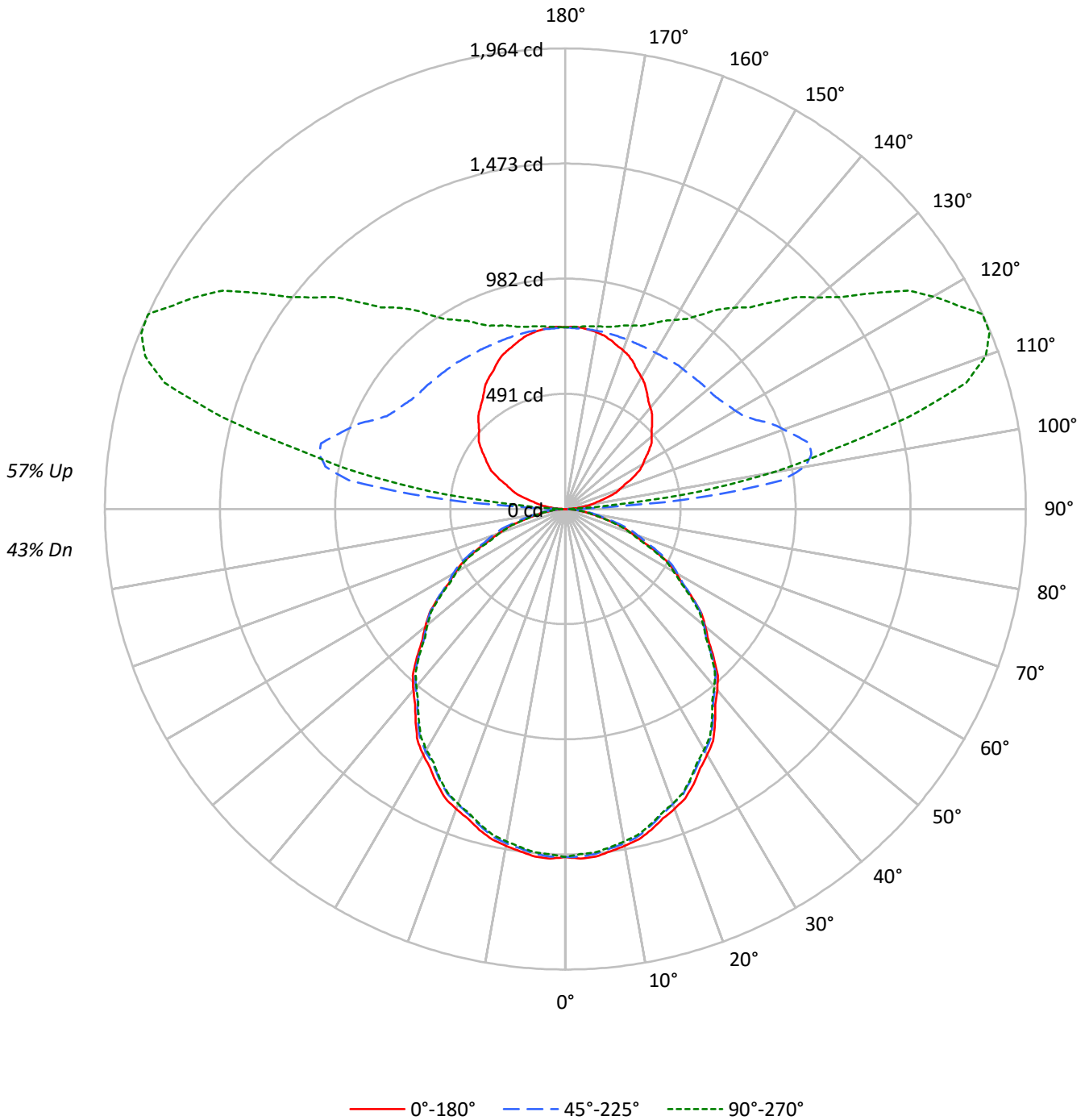
Lumens per Lamp: N/A
Luminaire Lumens: 8776.9 lumens
Efficiency: N/A
Efficacy: 136.1 lumens/watt
Spacing Criteria (0/90/45): 1.22 / 1.19 / 1.31
Luminous Opening: Rectangular (W 0.29' x L: 4' x H: 0')
CIE Type: General Diffuse

Input Watts (W): 64.5
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	105	105	105	105	96	96	96	96	79	79	79	64	64	64	50	50	50	43
1	96	92	88	85	88	84	81	78	70	67	65	56	55	53	44	43	42	36
2	88	80	74	69	80	74	69	64	61	57	54	50	47	45	39	37	36	31
3	80	71	64	58	73	65	59	54	54	49	46	44	41	38	34	32	30	26
4	73	63	55	49	67	58	51	45	48	43	39	39	35	32	31	28	26	22
5	67	56	48	42	61	51	44	39	43	38	33	35	31	28	28	25	23	19
6	62	50	42	36	56	46	39	34	39	33	29	32	28	25	25	22	20	17
7	57	45	37	32	52	42	35	30	35	30	26	29	25	22	23	20	18	15
8	53	41	33	28	48	38	31	26	32	27	23	26	22	19	21	18	16	14
9	49	37	30	25	45	34	28	23	29	24	20	24	20	17	19	17	14	12
10	46	34	27	22	42	32	25	21	27	22	18	22	18	16	18	15	13	11

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	13692	13692	13692
5°	13781	13672	13612
10°	13671	13560	13487
15°	13526	13376	13326
20°	13364	13159	13133
25°	13178	12938	12898
30°	12899	12704	12620
35°	12532	12356	12282
40°	12142	11952	11905
45°	11669	11516	11465
50°	11186	11091	11016
55°	10663	10663	10496
60°	10012	10206	9844
65°	9162	9619	8935
70°	8076	8853	7866
75°	6898	7924	6712
80°	5350	6668	5419
85°	3462	5124	4563



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	139.7	1.6
10°-20°	394.5	4.5
20°-30°	585.2	6.7
30°-40°	684.8	7.8
40°-50°	681.7	7.8
50°-60°	588.7	6.7
60°-70°	423.7	4.8
70°-80°	222.2	2.5
80°-90°	56.9	0.6
90°-100°	362.3	4.1
100°-110°	975.9	11.1
110°-120°	1024.2	11.7
120°-130°	831.1	9.5
130°-140°	651.8	7.4
140°-150°	500.4	5.7
150°-160°	359.8	4.1
160°-170°	219.8	2.5
170°-180°	74.1	0.8
0°-30°	1119.5	12.8
0°-40°	1804.3	20.6
0°-60°	3074.7	35.0
0°-90°	3777.6	43.0
90°-120°	2362.3	26.9
90°-150°	4345.6	49.5
90°-180°	4999.0	57.0
0°-180°	8776.9	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1484	1484	1484	1484	1484	
5°	1488	1471	1476	1472	1470	141
15°	1416	1398	1400	1398	1395	399
25°	1294	1273	1271	1263	1267	595
35°	1113	1097	1097	1087	1090	696
45°	894	887	883	880	879	690
55°	663	662	663	654	652	591
65°	420	432	441	423	409	416
75°	194	211	222	208	188	207
85°	33	43	48	46	43	43
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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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1484.0	1484.0	1484.0	1484.0	1484.0
2.5°	1492.4	1480.1	1484.0	1480.7	1473.6
5°	1488.0	1471.3	1476.2	1472.2	1469.7
7.5°	1472.8	1457.5	1461.0	1456.8	1455.3
10°	1459.2	1443.9	1447.4	1442.1	1439.6
12.5°	1443.5	1427.1	1430.7	1425.4	1423.9
15°	1416.1	1398.2	1400.4	1397.7	1395.1
17.5°	1384.1	1366.0	1366.4	1362.2	1361.7
20°	1361.1	1342.0	1340.2	1335.0	1337.6
22.5°	1336.0	1315.8	1314.1	1306.8	1310.4
25°	1294.5	1272.7	1270.9	1263.2	1267.0
27.5°	1246.3	1224.9	1224.9	1214.0	1218.1
30°	1210.8	1190.3	1192.5	1179.5	1184.6
32.5°	1173.1	1154.7	1155.9	1142.9	1148.0
35°	1112.7	1097.4	1097.0	1086.6	1090.5
37.5°	1051.0	1037.4	1035.3	1029.3	1030.3
40°	1008.1	996.6	992.4	988.5	988.5
42.5°	963.1	952.6	948.5	945.6	944.6
45°	894.3	886.7	882.6	879.9	878.7
47.5°	826.4	819.2	815.6	813.8	812.5
50°	779.3	774.2	772.7	768.8	767.5
52.5°	732.2	729.1	727.8	722.8	721.5
55°	662.9	661.6	662.9	653.7	652.5
57.5°	590.7	592.8	597.0	584.7	581.6
60°	542.6	547.7	553.1	538.6	533.5
62.5°	493.5	501.6	509.2	492.5	485.4
65°	419.7	432.5	440.6	423.3	409.3
67.5°	348.6	364.4	374.2	355.5	339.7
70°	299.4	317.3	328.2	309.5	291.6
72.5°	256.5	276.5	285.3	267.6	249.7
75°	193.5	211.4	222.3	207.5	188.3
77.5°	137.3	154.2	163.2	150.3	134.4
80°	100.7	118.6	125.5	114.8	102.0
82.5°	71.4	86.2	91.0	84.5	75.8
85°	32.7	42.9	48.4	45.7	43.1
87.5°	8.8	16.7	22.2	22.5	23.5
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

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CATALOG NUMBER: SQ4-PW1-125U-100D-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)