

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: P565019

Luminaire Tested: **SQ4-PW1-125U-050D-935-1D-UNV-STD-W-6**

Issue Date: 7/30/2021

Test Information

Test Method: LM-79-2019
Report Number: P565019
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-050D-935-1D-UNV-STD-W-6
Description: CORELITE SQ4 SUSPENDED LED LUMINAIRE WITH PERCEIVE WAVES CONTINUOUS LENS.
DOWNLIGHT 500 LUMENS PER FOOT
UPLIGHT 1250 LUMENS PER FOOT
Light Source: 3500K CCT, 90 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

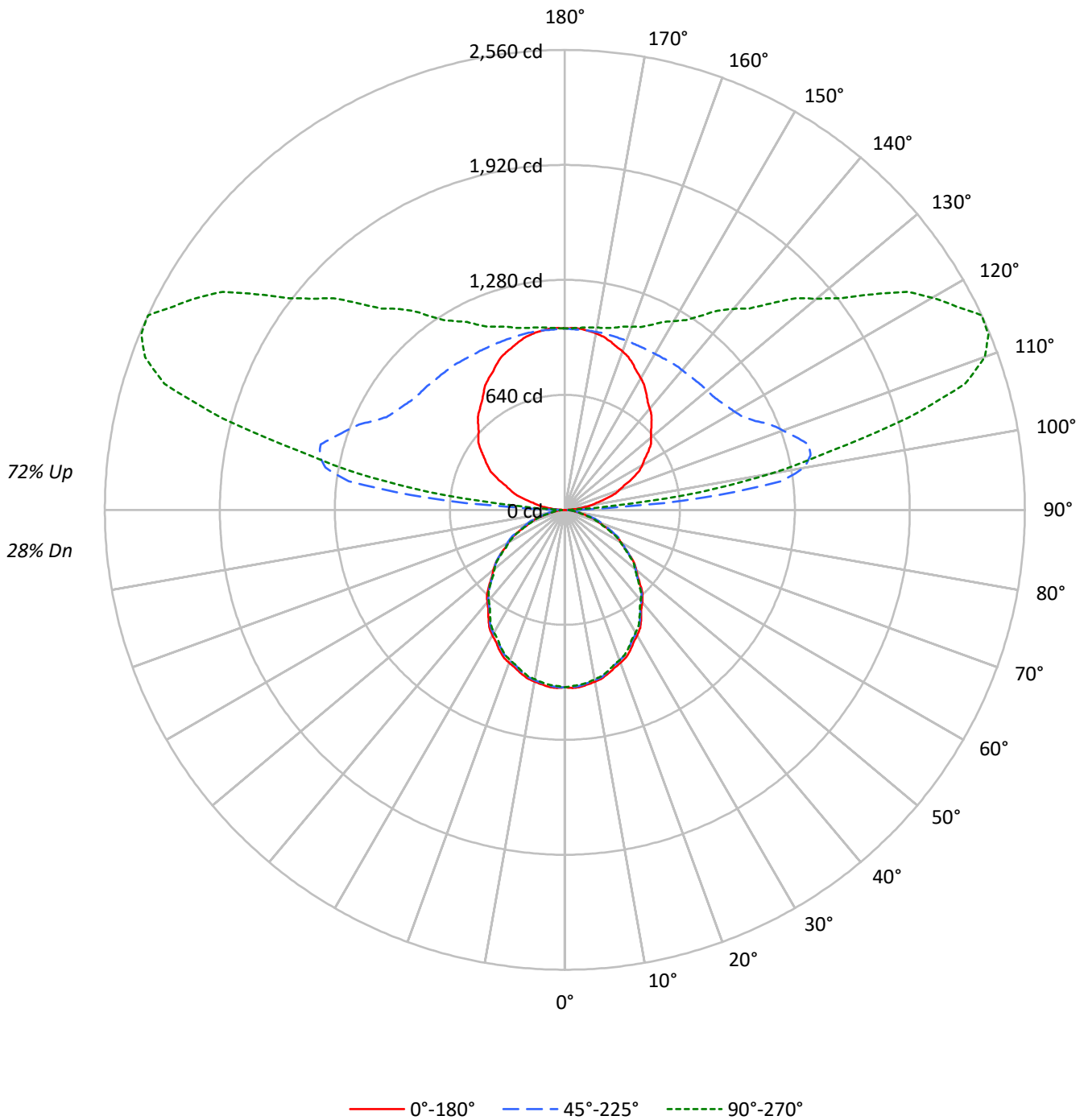
Lumens per Lamp: N/A
Luminaire Lumens: 9031.1 lumens
Efficiency: N/A
Efficacy: 121.7 lumens/watt
Spacing Criteria (0/90/45): 1.22 / 1.19 / 1.31
Luminous Opening: Rectangular (W 0.29' x L: 6' x H: 0')
CIE Type: Semi-Indirect

Input Watts (W): 74.2
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	0
RCR																		
0	102	102	102	102	91	91	91	91	71	71	71	53	53	53	36	36	36	28
1	93	89	85	82	83	79	76	74	62	60	58	46	45	44	32	31	30	24
2	85	77	72	67	75	69	65	60	55	51	48	41	39	37	28	27	26	20
3	77	68	61	55	69	61	55	50	48	44	41	36	33	31	25	23	22	17
4	70	60	53	47	63	54	48	43	43	38	34	32	29	26	22	20	19	14
5	65	53	46	40	58	48	41	36	38	33	30	29	25	23	20	18	16	13
6	59	48	40	34	53	43	36	31	34	29	26	26	22	20	18	16	14	11
7	55	43	35	30	49	39	32	27	31	26	22	23	20	18	16	14	13	10
8	51	39	31	26	45	35	29	24	28	23	20	21	18	16	15	13	11	9
9	47	35	28	23	42	32	26	21	26	21	18	20	16	14	14	12	10	8
10	44	32	25	21	39	29	23	19	23	19	16	18	15	12	13	11	9	7

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	6075	6075	6075
5°	6114	6066	6039
10°	6065	6016	5984
15°	6001	5935	5912
20°	5930	5839	5827
25°	5847	5740	5723
30°	5723	5636	5599
35°	5560	5482	5449
40°	5387	5303	5282
45°	5177	5110	5087
50°	4962	4921	4888
55°	4731	4731	4656
60°	4442	4528	4367
65°	4065	4269	3965
70°	3584	3928	3491
75°	3061	3515	2978
80°	2373	2958	2405
85°	1538	2272	2025



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	93.0	1.0
10°-20°	262.6	2.9
20°-30°	389.5	4.3
30°-40°	455.7	5.0
40°-50°	453.7	5.0
50°-60°	391.8	4.3
60°-70°	282.0	3.1
70°-80°	147.9	1.6
80°-90°	39.0	0.4
90°-100°	472.2	5.2
100°-110°	1271.9	14.1
110°-120°	1334.8	14.8
120°-130°	1083.2	12.0
130°-140°	849.5	9.4
140°-150°	652.2	7.2
150°-160°	468.9	5.2
160°-170°	286.5	3.2
170°-180°	96.6	1.1
0°-30°	745.1	8.3
0°-40°	1200.8	13.3
0°-60°	2046.3	22.7
0°-90°	2515.3	27.9
90°-120°	3078.9	34.1
90°-150°	5663.8	62.7
90°-180°	6516.0	72.2
0°-180°	9031.1	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	988	988	988	988	988	
5°	990	979	982	980	978	94
15°	942	930	932	930	928	266
25°	862	847	846	841	843	396
35°	740	730	730	723	726	463
45°	595	590	587	586	585	459
55°	441	440	441	435	434	394
65°	279	288	293	282	272	277
75°	129	141	148	138	125	138
85°	22	29	32	30	29	29
90°	3	8	15	17	17	6
95°	72	257	774	396	274	75
105°	235	366	1407	2104	1975	247
115°	415	508	1171	2263	2560	409
125°	567	651	1052	1778	2092	506
135°	683	762	1022	1434	1624	527
145°	790	851	1009	1226	1317	495
155°	896	929	1000	1100	1135	413
165°	972	983	1004	1044	1049	274
175°	1011	1009	1006	1020	1017	96
180°	1009	1009	1009	1009	1009	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	987.7	987.7	987.7	987.7	987.7
2.5°	993.2	985.1	987.7	985.5	980.7
5°	990.3	979.2	982.5	979.8	978.1
7.5°	980.2	970.0	972.4	969.5	968.5
10°	971.1	960.9	963.3	959.8	958.1
12.5°	960.7	949.8	952.2	948.7	947.6
15°	942.4	930.5	932.0	930.2	928.5
17.5°	921.2	909.1	909.4	906.6	906.2
20°	905.9	893.1	892.0	888.5	890.2
22.5°	889.2	875.7	874.5	869.7	872.1
25°	861.5	847.0	845.8	840.7	843.2
27.5°	829.5	815.2	815.2	808.0	810.7
30°	805.8	792.2	793.6	785.0	788.4
32.5°	780.7	768.5	769.3	760.6	764.0
35°	740.5	730.3	730.1	723.2	725.7
37.5°	699.5	690.4	689.0	685.0	685.7
40°	670.9	663.3	660.5	657.9	657.9
42.5°	641.0	634.0	631.2	629.3	628.6
45°	595.2	590.1	587.4	585.6	584.8
47.5°	550.0	545.2	542.8	541.6	540.7
50°	518.6	515.2	514.3	511.7	510.8
52.5°	487.3	485.3	484.4	481.0	480.2
55°	441.2	440.3	441.2	435.1	434.2
57.5°	393.2	394.5	397.3	389.1	387.1
60°	361.1	364.5	368.1	358.4	355.0
62.5°	328.4	333.9	338.9	327.8	323.0
65°	279.3	287.8	293.3	281.7	272.4
67.5°	232.0	242.5	249.1	236.6	226.1
70°	199.3	211.2	218.4	206.0	194.1
72.5°	170.7	184.0	189.9	178.1	166.2
75°	128.8	140.7	147.9	138.1	125.3
77.5°	91.4	102.6	108.6	100.0	89.5
80°	67.0	78.9	83.5	76.4	67.9
82.5°	47.5	57.4	60.6	56.3	50.5
85°	21.8	28.6	32.2	30.4	28.7
87.5°	6.1	11.9	16.3	16.6	17.3
90°	2.6	7.6	15.4	16.7	16.7
92.5°	31.4	110.8	219.1	105.5	73.3
95°	72.0	256.8	774.0	395.8	273.9
97.5°	114.9	294.0	1214.0	1014.2	764.8
100°	147.9	308.8	1353.9	1416.6	1175.2
102.5°	179.8	329.6	1400.2	1717.9	1519.8
105°	235.3	366.0	1406.6	2104.4	1974.9
107.5°	287.8	404.4	1346.7	2303.1	2336.5
110°	322.7	433.4	1292.2	2364.7	2486.7

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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	359.8	462.3	1239.7	2351.1	2551.5
115°	415.3	508.3	1171.3	2263.3	2560.0
117.5°	466.0	553.2	1118.4	2123.1	2453.5
120°	498.9	583.1	1091.6	2022.5	2362.0
122.5°	527.7	610.9	1072.1	1919.6	2258.1
125°	567.0	651.3	1051.8	1777.6	2091.9
127.5°	604.8	687.8	1038.9	1652.4	1933.0
130°	627.5	710.4	1033.8	1580.7	1827.1
132.5°	650.1	732.1	1028.6	1517.5	1743.8
135°	682.7	761.9	1022.2	1434.1	1623.9
137.5°	713.9	789.8	1018.8	1363.4	1519.3
140°	735.5	808.4	1015.8	1319.8	1460.6
142.5°	758.1	826.0	1013.7	1279.2	1397.9
145°	789.5	851.1	1009.3	1226.1	1316.6
147.5°	823.4	877.0	1005.0	1181.4	1252.6
150°	846.0	892.6	1002.9	1153.4	1212.5
152.5°	866.6	907.1	1001.9	1130.5	1178.5
155°	896.2	928.9	1000.3	1100.1	1135.3
157.5°	922.2	947.5	1000.6	1078.8	1102.4
160°	938.6	960.0	1001.6	1066.3	1083.9
162.5°	953.0	970.4	1002.6	1055.9	1068.5
165°	972.0	983.4	1004.2	1044.2	1049.2
167.5°	987.5	994.0	1005.5	1035.1	1037.1
170°	997.8	1000.3	1005.5	1029.9	1029.9
172.5°	1003.9	1004.4	1006.5	1024.8	1024.8
175°	1010.6	1009.4	1005.5	1019.6	1017.0
177.5°	1013.4	1011.4	1006.2	1014.4	1012.4
180°	1009.3	1009.3	1009.3	1009.3	1009.3

(END OF REPORT)