

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: P564347

Luminaire Tested: **SQ4-PR1-125U-050D-935-1D-UNV-STD-W-6**

Issue Date: 7/30/2021

Test Information

Test Method: LM-79-2019
Report Number: P564347
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1910-536-24, G2-2106-289-4)
Test Lab: INNOVATION CENTER
Issue Date: 7/30/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: CORELITE
Catalog Number: SQ4-PR1-125U-050D-935-1D-UNV-STD-W-6
Description: CORELITE SQ4 SUSPENDED LED LUMINAIRE WITH PERCEIVE RIPPLE CONTINUOUS LENS.
DOWNLIGHT 500 LUMENS PER FOOT
UPLIGHT 1250 LUMENS PER FOOT
Light Source: 3500K CCT, 90 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

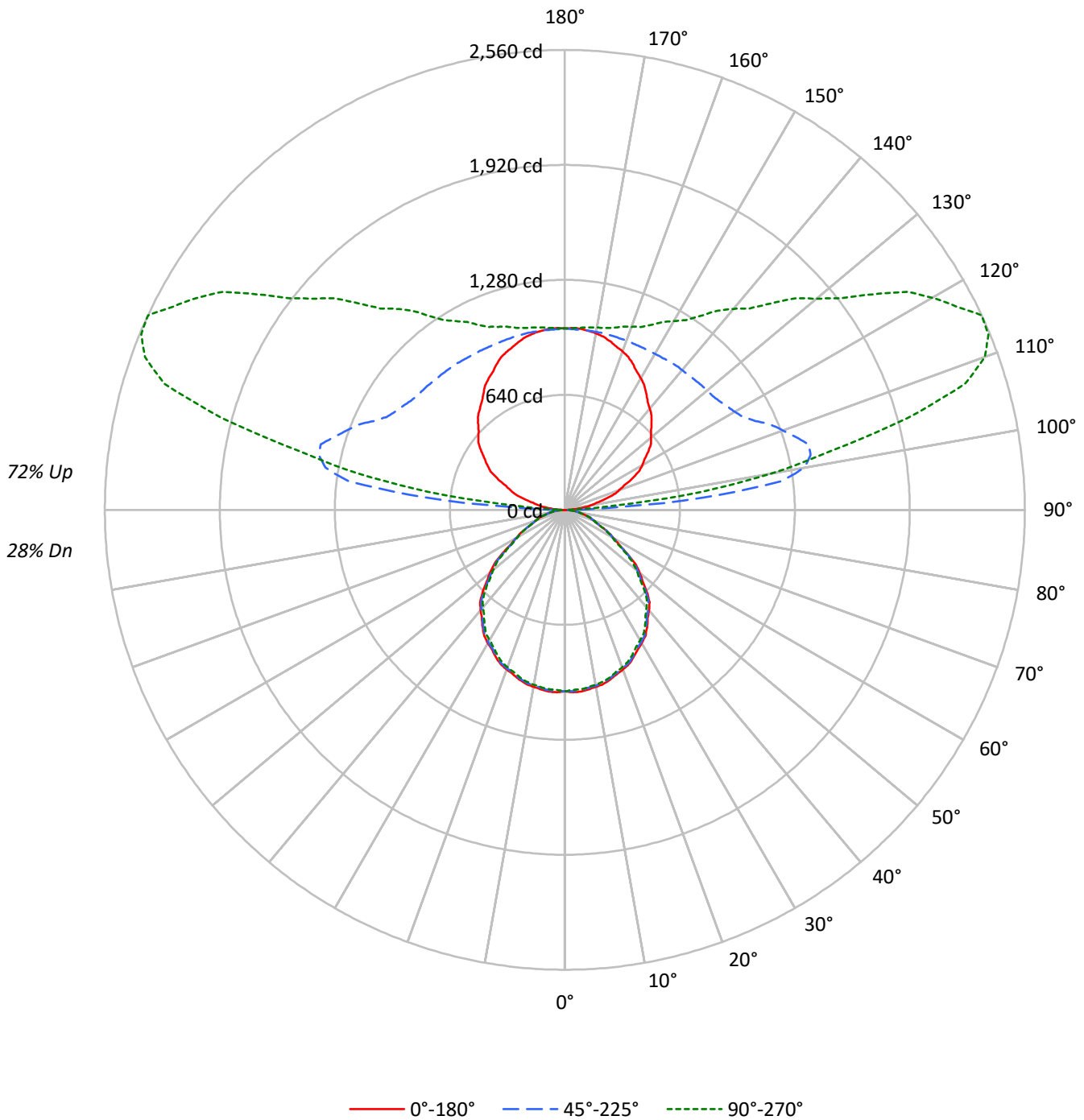
Lumens per Lamp: N/A
Luminaire Lumens: 9043.8 lumens
Efficiency: N/A
Efficacy: 121.9 lumens/watt
Spacing Criteria (0/90/45): 1.26 / 1.24 / 1.35
Luminous Opening: Rectangular (W 0.29' x L: 6' x H: 0')
CIE Type: Semi-Indirect

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	80	77	74	62	60	58	47	45	44	32	31	31	24
2	85	78	72	67	76	70	65	61	55	51	49	41	39	37	28	27	26	20
3	77	68	61	56	69	61	56	51	48	44	41	36	34	31	25	24	22	17
4	71	61	53	47	63	54	48	43	43	39	35	32	29	27	23	21	19	15
5	65	54	46	40	58	48	42	37	38	34	30	29	26	23	20	18	17	13
6	60	48	40	35	53	43	37	32	35	30	26	26	23	20	18	16	15	12
7	55	43	36	30	49	39	33	28	31	26	23	24	20	18	17	15	13	10
8	51	39	32	27	46	35	29	25	28	24	20	22	18	16	15	13	12	9
9	47	36	29	24	42	32	26	22	26	21	18	20	17	14	14	12	11	8
10	44	33	26	21	40	30	23	19	24	19	16	18	15	13	13	11	10	8

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	6214	6214	6214
5°	6270	6222	6190
10°	6250	6207	6174
15°	6223	6184	6151
20°	6191	6152	6106
25°	6148	6107	6035
30°	6082	6038	5952
35°	5992	5939	5855
40°	5855	5792	5687
45°	5617	5518	5404
50°	5196	5071	4971
55°	4535	4432	4339
60°	3822	3789	3715
65°	3305	3318	3294
70°	3036	3052	3052
75°	2916	2916	2937
80°	2742	2773	2742
85°	2209	2456	2456



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	95.5	1.1
10°-20°	273.3	3.0
20°-30°	412.3	4.6
30°-40°	491.2	5.4
40°-50°	484.3	5.4
50°-60°	370.1	4.1
60°-70°	229.1	2.5
70°-80°	130.1	1.4
80°-90°	41.9	0.5
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°	781.2	8.6
0°-40°	1272.4	14.1
0°-60°	2126.9	23.5
0°-90°	2528.0	28.0
90°-120°	3078.9	34.0
90°-150°	5663.8	62.6
90°-180°	6516.0	72.0
0°-180°	9043.8	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1010	1010	1010	1010	1010	
5°	1016	1004	1008	1004	1002	96
15°	977	967	971	968	966	276
25°	906	895	900	890	889	417
35°	798	789	791	780	780	498
45°	646	637	634	623	621	495
55°	423	416	413	406	405	379
65°	227	225	228	226	226	230
75°	123	123	123	124	124	130
85°	31	33	35	35	35	36
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°	1010.3	1010.3	1010.3	1010.3	1010.3
2.5°	1016.6	1007.7	1010.3	1008.1	1003.3
5°	1015.5	1004.5	1007.7	1004.2	1002.5
7.5°	1007.7	996.8	1000.0	996.5	995.5
10°	1000.7	990.5	993.8	990.2	988.5
12.5°	993.1	982.2	986.1	981.9	980.2
15°	977.2	967.0	971.1	967.6	965.9
17.5°	959.8	948.9	953.0	949.0	946.8
20°	945.9	935.7	939.8	933.7	932.8
22.5°	930.6	920.4	924.5	916.3	916.1
25°	905.9	894.8	899.8	890.2	889.3
27.5°	876.5	866.2	870.4	860.6	859.6
30°	856.3	846.1	850.2	839.7	838.0
32.5°	833.3	823.8	827.2	816.7	815.7
35°	798.0	788.6	791.0	780.5	779.7
37.5°	757.8	749.3	750.6	739.1	738.3
40°	729.2	720.7	721.4	709.2	708.3
42.5°	697.9	689.4	688.7	676.5	675.6
45°	645.7	637.2	634.4	623.0	621.3
47.5°	586.2	577.7	572.4	563.2	562.0
50°	543.0	534.5	529.9	522.1	519.5
52.5°	496.4	487.8	484.0	476.8	474.3
55°	422.9	416.1	413.3	406.3	404.6
57.5°	353.1	348.5	347.7	340.9	340.2
60°	310.7	308.1	308.0	302.0	302.0
62.5°	274.5	272.6	273.9	269.9	269.2
65°	227.1	225.4	228.0	226.3	226.3
67.5°	189.7	189.7	191.3	190.6	190.6
70°	168.8	168.8	169.7	169.7	169.7
72.5°	150.0	149.3	151.6	151.6	150.9
75°	122.7	122.7	122.7	123.6	123.6
77.5°	95.5	95.7	96.4	96.2	95.5
80°	77.4	78.3	78.3	77.4	77.4
82.5°	59.3	60.2	60.2	60.0	59.3
85°	31.3	33.0	34.8	34.8	34.8
87.5°	9.6	13.3	17.0	17.3	16.6
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)