

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: P564351

Luminaire Tested: **SQ4-PR1-125U-050D-940-1D-UNV-STD-W-6**

Issue Date: 7/30/2021

Test Information

Test Method: LM-79-2019
Report Number: P564351
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-940-1D-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: 4000K CCT, 90 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

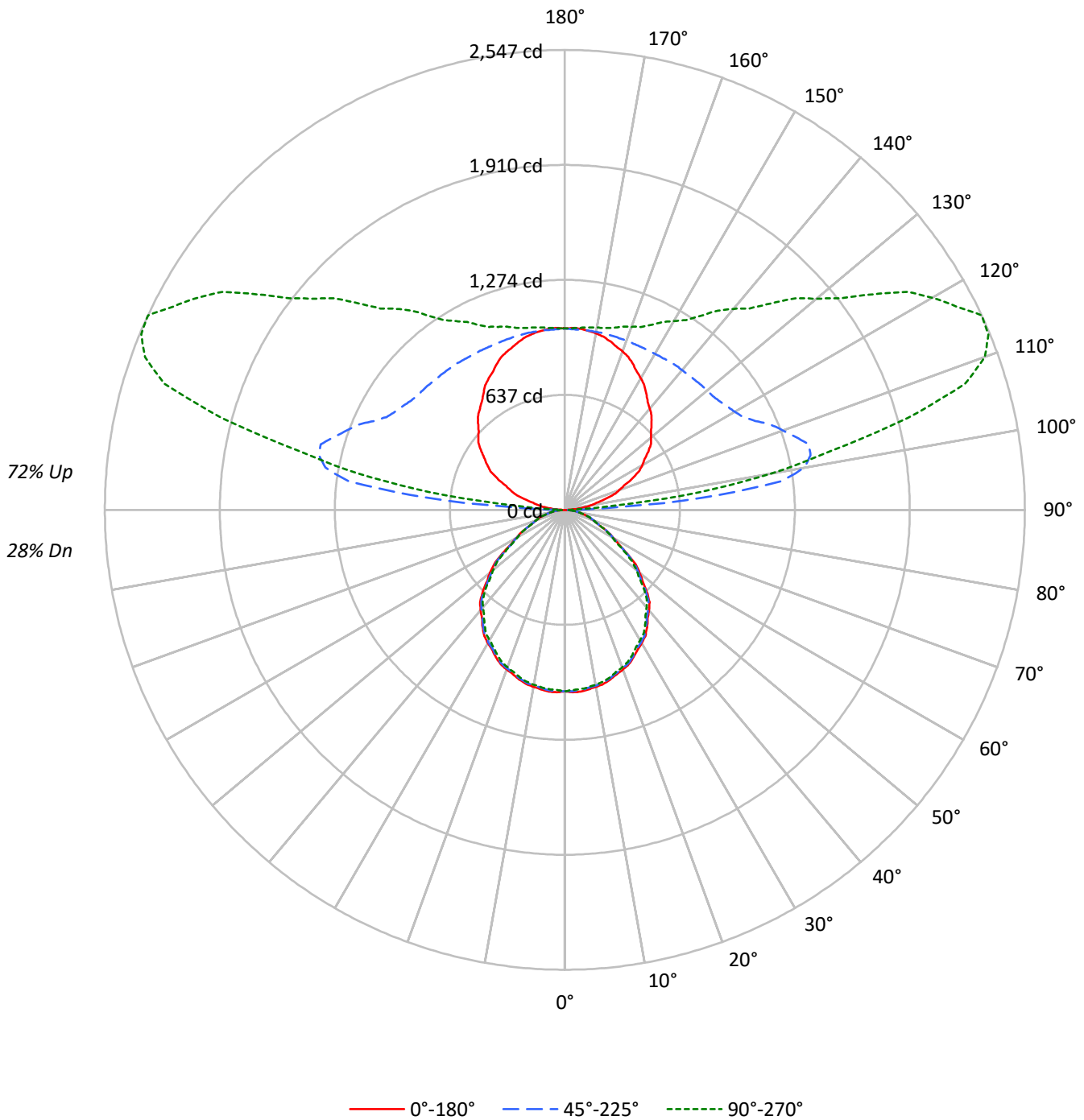
Lumens per Lamp: N/A
Luminaire Lumens: 8997.9 lumens
Efficiency: N/A
Efficacy: 121.3 lumens/watt
Spacing Criteria (0/90/45): 1.26 / 1.24 / 1.35
Luminous Opening: Rectangular (W 0.29' x L: 6' x H: 0')
CIE Type: Semi-Indirect

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°	6183	6183	6183
5°	6239	6190	6158
10°	6218	6175	6143
15°	6191	6153	6119
20°	6160	6120	6075
25°	6117	6075	6005
30°	6050	6008	5921
35°	5961	5909	5825
40°	5825	5763	5658
45°	5588	5490	5377
50°	5169	5046	4946
55°	4512	4410	4317
60°	3802	3770	3695
65°	3289	3301	3276
70°	3021	3036	3036
75°	2902	2902	2921
80°	2731	2759	2731
85°	2202	2442	2442



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	95.1	1.1
10°-20°	272.0	3.0
20°-30°	410.2	4.6
30°-40°	488.8	5.4
40°-50°	481.9	5.4
50°-60°	368.3	4.1
60°-70°	227.9	2.5
70°-80°	129.4	1.4
80°-90°	41.7	0.5
90°-100°	469.8	5.2
100°-110°	1265.4	14.1
110°-120°	1328.0	14.8
120°-130°	1077.7	12.0
130°-140°	845.2	9.4
140°-150°	648.9	7.2
150°-160°	466.6	5.2
160°-170°	285.0	3.2
170°-180°	96.1	1.1
0°-30°	777.2	8.6
0°-40°	1266.0	14.1
0°-60°	2116.1	23.5
0°-90°	2515.1	28.0
90°-120°	3063.3	34.0
90°-150°	5635.0	62.6
90°-180°	6483.0	72.1
0°-180°	8997.9	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1005	1005	1005	1005	1005	
5°	1010	999	1003	999	997	96
15°	972	962	966	963	961	274
25°	901	890	895	886	885	415
35°	794	785	787	777	776	495
45°	642	634	631	620	618	492
55°	421	414	411	404	403	377
65°	226	224	227	225	225	229
75°	122	122	122	123	123	129
85°	31	33	35	35	35	36
90°	3	8	15	17	17	6
95°	72	256	770	394	272	75
105°	234	364	1400	2094	1965	246
115°	413	506	1165	2252	2547	407
125°	564	648	1046	1769	2081	504
135°	679	758	1017	1427	1616	524
145°	786	847	1004	1220	1310	493
155°	892	924	995	1094	1130	410
165°	967	978	999	1039	1044	273
175°	1006	1004	1000	1014	1012	96
180°	1004	1004	1004	1004	1004	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1005.2	1005.2	1005.2	1005.2	1005.2
2.5°	1011.4	1002.6	1005.2	1003.0	998.2
5°	1010.4	999.4	1002.6	999.1	997.4
7.5°	1002.6	991.7	994.9	991.5	990.4
10°	995.6	985.5	988.7	985.2	983.5
12.5°	988.0	977.2	981.1	976.9	975.2
15°	972.3	962.1	966.2	962.7	961.0
17.5°	954.9	944.1	948.2	944.2	942.0
20°	941.1	930.9	935.0	929.0	928.1
22.5°	925.9	915.7	919.8	911.7	911.5
25°	901.3	890.3	895.2	885.7	884.8
27.5°	872.0	861.8	865.9	856.2	855.2
30°	851.9	841.8	845.9	835.4	833.7
32.5°	829.1	819.6	823.0	812.6	811.6
35°	793.9	784.6	787.0	776.6	775.7
37.5°	753.9	745.5	746.8	735.4	734.5
40°	725.5	717.1	717.7	705.6	704.7
42.5°	694.4	685.9	685.2	673.0	672.2
45°	642.4	633.9	631.1	619.9	618.2
47.5°	583.2	574.7	569.5	560.3	559.1
50°	540.2	531.8	527.3	519.4	516.9
52.5°	493.8	485.4	481.5	474.4	471.8
55°	420.8	414.0	411.2	404.3	402.6
57.5°	351.3	346.8	346.0	339.2	338.5
60°	309.1	306.5	306.5	300.4	300.4
62.5°	273.1	271.2	272.5	268.5	267.9
65°	226.0	224.3	226.8	225.1	225.1
67.5°	188.7	188.7	190.3	189.6	189.6
70°	168.0	168.0	168.8	168.8	168.8
72.5°	149.3	148.6	150.8	150.8	150.1
75°	122.1	122.1	122.1	122.9	122.9
77.5°	95.1	95.2	95.9	95.7	95.1
80°	77.1	77.9	77.9	77.1	77.1
82.5°	59.0	59.9	59.9	59.7	59.0
85°	31.2	32.9	34.6	34.6	34.6
87.5°	9.5	13.2	16.9	17.2	16.5
90°	2.6	7.6	15.4	16.6	16.6
92.5°	31.2	110.3	218.0	104.9	72.9
95°	71.6	255.5	770.1	393.8	272.5
97.5°	114.4	292.5	1207.9	1009.1	760.9
100°	147.1	307.2	1347.0	1409.4	1169.2
102.5°	178.8	327.9	1393.1	1709.2	1512.1
105°	234.1	364.2	1399.5	2093.7	1964.9
107.5°	286.3	402.4	1339.9	2291.4	2324.6
110°	321.1	431.2	1285.6	2352.7	2474.1

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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	357.9	460.0	1233.4	2339.1	2538.5
115°	413.2	505.8	1165.4	2251.8	2547.0
117.5°	463.6	550.4	1112.7	2112.3	2441.0
120°	496.3	580.2	1086.1	2012.2	2350.0
122.5°	525.0	607.8	1066.6	1909.9	2246.6
125°	564.1	648.0	1046.4	1768.6	2081.3
127.5°	601.8	684.3	1033.6	1644.0	1923.2
130°	624.3	706.8	1028.5	1572.6	1817.8
132.5°	646.8	728.3	1023.4	1509.8	1734.9
135°	679.3	758.1	1017.0	1426.8	1615.7
137.5°	710.2	785.8	1013.7	1356.5	1511.6
140°	731.7	804.3	1010.6	1313.1	1453.2
142.5°	754.2	821.8	1008.6	1272.7	1390.8
145°	785.5	846.7	1004.2	1219.9	1309.9
147.5°	819.2	872.5	999.9	1175.4	1246.2
150°	841.7	888.0	997.8	1147.5	1206.3
152.5°	862.2	902.5	996.8	1124.8	1172.6
155°	891.6	924.2	995.2	1094.5	1129.6
157.5°	917.5	942.7	995.5	1073.3	1096.8
160°	933.8	955.1	996.5	1060.9	1078.4
162.5°	948.2	965.4	997.6	1050.5	1063.0
165°	967.1	978.4	999.1	1038.9	1043.9
167.5°	982.5	989.0	1000.4	1029.8	1031.8
170°	992.7	995.2	1000.4	1024.7	1024.7
172.5°	998.8	999.3	1001.4	1019.6	1019.6
175°	1005.5	1004.2	1000.4	1014.4	1011.9
177.5°	1008.3	1006.3	1001.1	1009.3	1007.3
180°	1004.2	1004.2	1004.2	1004.2	1004.2

(END OF REPORT)