

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: P564335

Luminaire Tested: **SQ4-PR1-125U-050D-835-1D-UNV-STD-W-6**

Issue Date: 7/30/2021

Test Information

Test Method: LM-79-2019
Report Number: P564335
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-835-1D-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, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

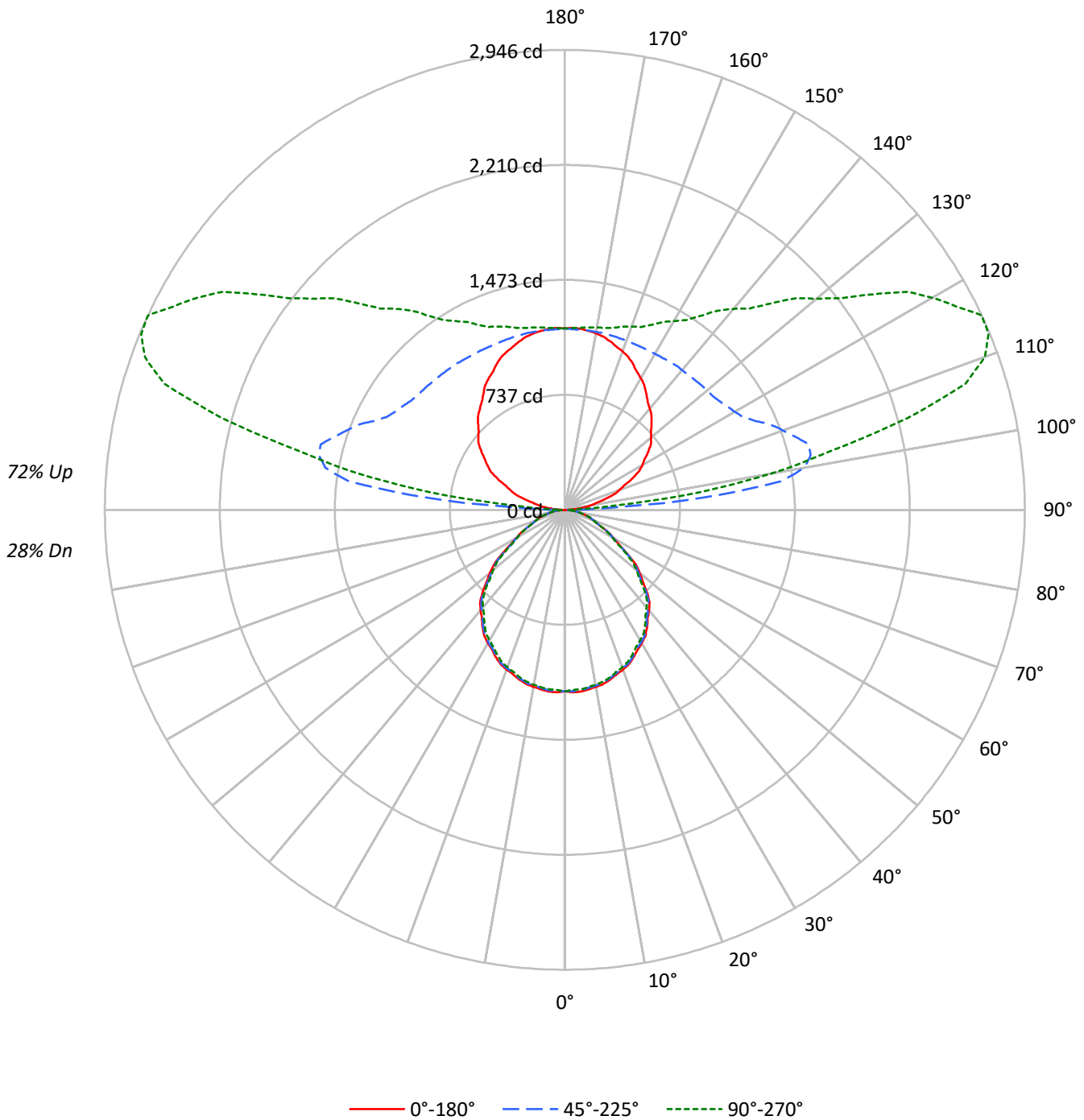
Lumens per Lamp: N/A
Luminaire Lumens: 10408.4 lumens
Efficiency: N/A
Efficacy: 140.3 lumens/watt
Spacing Criteria (0/90/45): 1.26 / 1.24 / 1.35
Luminous Opening: Rectangular (W 0.29' x L: 6' x H: 0')
CIE Type: Semi-Indirect

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°	7152	7152	7152
5°	7216	7160	7123
10°	7193	7143	7106
15°	7162	7117	7079
20°	7125	7080	7027
25°	7076	7028	6946
30°	6999	6950	6849
35°	6896	6836	6738
40°	6739	6666	6545
45°	6464	6351	6220
50°	5980	5836	5721
55°	5219	5101	4994
60°	4398	4361	4275
65°	3804	3819	3790
70°	3494	3512	3512
75°	3356	3356	3379
80°	3156	3191	3156
85°	2548	2830	2830



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	110.0	1.1
10°-20°	314.6	3.0
20°-30°	474.5	4.6
30°-40°	565.4	5.4
40°-50°	557.4	5.4
50°-60°	426.0	4.1
60°-70°	263.6	2.5
70°-80°	149.7	1.4
80°-90°	48.3	0.5
90°-100°	543.4	5.2
100°-110°	1463.8	14.1
110°-120°	1536.2	14.8
120°-130°	1246.6	12.0
130°-140°	977.7	9.4
140°-150°	750.6	7.2
150°-160°	539.7	5.2
160°-170°	329.7	3.2
170°-180°	111.2	1.1
0°-30°	899.0	8.6
0°-40°	1464.4	14.1
0°-60°	2447.8	23.5
0°-90°	2909.4	28.0
90°-120°	3543.5	34.0
90°-150°	6518.4	62.6
90°-180°	7499.0	72.0
0°-180°	10408.4	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1163	1163	1163	1163	1163	
5°	1169	1156	1160	1156	1154	111
15°	1125	1113	1118	1114	1112	317
25°	1043	1030	1036	1024	1024	480
35°	918	908	910	898	897	573
45°	743	733	730	717	715	569
55°	487	479	476	468	466	436
65°	261	259	262	260	260	265
75°	141	141	141	142	142	149
85°	36	38	40	40	40	42
90°	3	9	18	19	19	7
95°	83	296	891	456	315	87
105°	271	421	1619	2422	2273	285
115°	478	585	1348	2605	2946	470
125°	653	750	1210	2046	2408	583
135°	786	877	1176	1650	1869	607
145°	909	980	1162	1411	1515	570
155°	1031	1069	1151	1266	1307	475
165°	1119	1132	1156	1202	1208	315
175°	1163	1162	1157	1173	1170	110
180°	1162	1162	1162	1162	1162	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1162.7	1162.7	1162.7	1162.7	1162.7
2.5°	1169.9	1159.8	1162.7	1160.2	1154.7
5°	1168.7	1156.0	1159.7	1155.7	1153.7
7.5°	1159.7	1147.2	1150.9	1146.9	1145.7
10°	1151.7	1140.0	1143.7	1139.7	1137.7
12.5°	1142.9	1130.4	1134.9	1130.0	1128.1
15°	1124.7	1112.9	1117.7	1113.6	1111.7
17.5°	1104.7	1092.1	1096.8	1092.2	1089.6
20°	1088.6	1076.9	1081.6	1074.6	1073.6
22.5°	1071.0	1059.2	1064.0	1054.6	1054.4
25°	1042.6	1029.8	1035.5	1024.5	1023.5
27.5°	1008.7	997.0	1001.7	990.5	989.3
30°	985.5	973.7	978.5	966.4	964.4
32.5°	959.0	948.1	952.0	940.0	938.8
35°	918.4	907.6	910.4	898.3	897.3
37.5°	872.1	862.3	863.9	850.6	849.7
40°	839.3	829.5	830.2	816.2	815.2
42.5°	803.2	793.4	792.6	778.5	777.6
45°	743.1	733.3	730.1	717.0	715.1
47.5°	674.6	664.8	658.8	648.1	646.8
50°	624.9	615.1	609.9	600.8	597.9
52.5°	571.3	561.5	557.0	548.8	545.8
55°	486.7	478.9	475.7	467.7	465.7
57.5°	406.4	401.1	400.2	392.4	391.6
60°	357.5	354.6	354.5	347.5	347.5
62.5°	315.9	313.7	315.3	310.6	309.9
65°	261.4	259.4	262.4	260.4	260.4
67.5°	218.3	218.3	220.1	219.3	219.3
70°	194.3	194.3	195.3	195.3	195.3
72.5°	172.7	171.9	174.5	174.4	173.7
75°	141.2	141.2	141.2	142.2	142.2
77.5°	110.0	110.2	111.0	110.7	110.0
80°	89.1	90.1	90.1	89.1	89.1
82.5°	68.3	69.3	69.3	69.1	68.3
85°	36.1	38.0	40.1	40.1	40.1
87.5°	11.0	15.3	19.6	19.9	19.1
90°	3.0	8.7	17.8	19.2	19.2
92.5°	36.1	127.6	252.2	121.4	84.3
95°	82.9	295.6	890.8	455.5	315.2
97.5°	132.3	338.3	1397.2	1167.2	880.2
100°	170.2	355.4	1558.2	1630.3	1352.5
102.5°	206.9	379.3	1611.5	1977.1	1749.1
105°	270.8	421.3	1618.9	2422.0	2272.9
107.5°	331.2	465.4	1549.9	2650.6	2689.1
110°	371.4	498.8	1487.2	2721.5	2861.9



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CATALOG NUMBER: SQ4-PR1-125U-050D-835-1D-UNV-STD-W-6

CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	414.0	532.1	1426.8	2705.8	2936.5
115°	478.0	585.0	1348.1	2604.8	2946.2
117.5°	536.3	636.7	1287.1	2443.5	2823.7
120°	574.2	671.1	1256.3	2327.7	2718.4
122.5°	607.3	703.1	1233.8	2209.3	2598.8
125°	652.6	749.5	1210.5	2045.9	2407.6
127.5°	696.1	791.6	1195.7	1901.8	2224.7
130°	722.1	817.6	1189.7	1819.2	2102.8
132.5°	748.2	842.5	1183.8	1746.4	2006.9
135°	785.8	876.9	1176.4	1650.5	1869.0
137.5°	821.6	909.0	1172.6	1569.1	1748.5
140°	846.4	930.4	1169.0	1519.0	1681.0
142.5°	872.5	950.6	1166.7	1472.2	1608.8
145°	908.6	979.5	1161.6	1411.1	1515.3
147.5°	947.7	1009.3	1156.6	1359.7	1441.6
150°	973.7	1027.2	1154.2	1327.4	1395.4
152.5°	997.4	1044.0	1153.0	1301.1	1356.4
155°	1031.4	1069.0	1151.3	1266.1	1306.6
157.5°	1061.3	1090.5	1151.6	1241.6	1268.8
160°	1080.2	1104.8	1152.7	1227.2	1247.5
162.5°	1096.8	1116.8	1153.9	1215.2	1229.7
165°	1118.7	1131.7	1155.7	1201.7	1207.5
167.5°	1136.5	1144.0	1157.2	1191.3	1193.6
170°	1148.3	1151.2	1157.2	1185.3	1185.3
172.5°	1155.4	1156.0	1158.4	1179.4	1179.4
175°	1163.1	1161.7	1157.2	1173.4	1170.5
177.5°	1166.4	1164.0	1158.1	1167.5	1165.2
180°	1161.6	1161.6	1161.6	1161.6	1161.6

(END OF REPORT)