

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: P563855

Luminaire Tested: **SQ4-PR1-025U-050D-835-1D-UNV-STD-W-6**

Issue Date: 7/30/2021

Test Information

Test Method: LM-79-2019
Report Number: P563855
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1910-536-32, 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-PR1-025U-050D-835-1D-UNV-STD-W-6
Description: CORELITE SQ4 SUSPENDED LED LUMINAIRE WITH PERCEIVE RIPPLE CONTINUOUS LENS.
DOWNLIGHT 500 LUMENS PER FOOT
UPLIGHT 250 LUMENS PER FOOT
Light Source: 3500K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

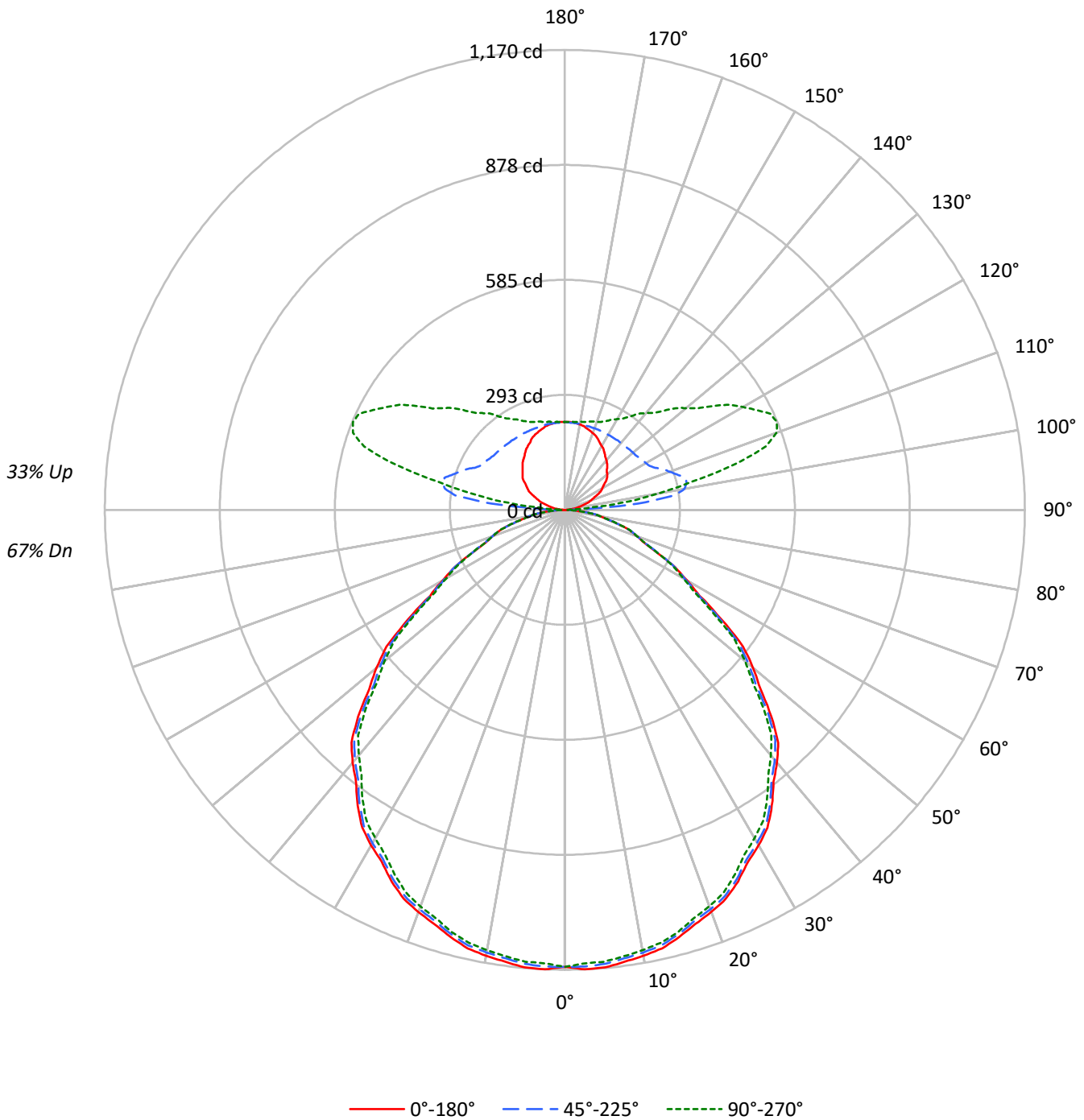
Lumens per Lamp: N/A
Luminaire Lumens: 4356.8 lumens
Efficiency: N/A
Efficacy: 124.8 lumens/watt
Spacing Criteria (0/90/45): 1.26 / 1.24 / 1.35
Luminous Opening: Rectangular (W 0.29' x L: 6' x H: 0')
CIE Type: Semi-Direct

Input Watts (W): 34.9
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	111	111	111	111	105	105	105	105	93	93	93	82	82	82	72	72	72	67
1	102	98	94	90	96	92	89	86	82	79	77	72	71	69	64	62	61	57
2	93	86	80	74	88	81	76	71	72	68	64	64	61	58	57	54	52	48
3	85	76	68	63	80	72	65	60	64	59	55	57	53	50	51	47	45	41
4	78	67	59	53	73	64	57	51	57	51	47	51	47	43	45	42	39	36
5	72	60	52	46	68	57	50	44	51	45	41	46	41	37	41	37	34	31
6	66	54	46	40	62	52	44	39	46	40	36	42	37	33	37	33	30	28
7	62	49	41	35	58	47	39	34	42	36	32	38	33	29	34	30	27	24
8	57	45	37	31	54	43	35	30	39	33	28	35	30	26	31	27	24	22
9	53	41	33	28	50	39	32	27	35	30	25	32	27	24	29	25	22	20
10	50	38	30	25	47	36	29	25	33	27	23	30	25	21	27	23	20	18

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	2.5
10°-20°	314.6	7.2
20°-30°	474.5	10.9
30°-40°	565.4	13.0
40°-50°	557.4	12.8
50°-60°	426.0	9.8
60°-70°	263.6	6.1
70°-80°	149.7	3.4
80°-90°	46.8	1.1
90°-100°	108.9	2.5
100°-110°	286.4	6.6
110°-120°	297.0	6.8
120°-130°	238.2	5.5
130°-140°	186.9	4.3
140°-150°	143.5	3.3
150°-160°	103.3	2.4
160°-170°	63.2	1.5
170°-180°	21.4	0.5
0°-30°	899.0	20.6
0°-40°	1464.4	33.6
0°-60°	2447.8	56.2
0°-90°	2907.9	66.7
90°-120°	692.3	15.9
90°-150°	1261.0	28.9
90°-180°	1449.0	33.3
0°-180°	4356.8	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°	1	4	12	6	6	3
95°	14	56	188	97	66	16
105°	52	78	317	481	448	55
115°	92	111	254	506	578	91
125°	128	143	231	390	460	113
135°	152	167	224	315	357	118
145°	176	188	221	268	290	110
155°	199	205	221	242	249	92
165°	215	218	221	229	232	61
175°	224	224	222	225	225	21
180°	224	224	224	224	224	



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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°	10.7	14.4	18.3	17.2	16.4
90°	1.4	4.2	11.5	5.7	5.7
92.5°	6.0	29.0	64.2	28.4	18.3
95°	14.3	56.4	187.7	96.7	65.9
97.5°	24.9	61.9	280.9	223.3	164.5
100°	33.0	66.6	309.5	313.7	243.6
102.5°	39.8	71.2	317.5	390.7	330.7
105°	51.6	78.2	316.7	480.7	448.5
107.5°	63.6	88.3	298.6	527.5	535.3
110°	71.6	94.1	283.7	539.5	573.2



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	79.7	101.0	270.0	531.9	583.5
115°	91.7	111.3	253.6	506.0	577.5
117.5°	103.5	121.4	242.5	470.1	549.4
120°	110.3	127.1	237.9	446.0	523.0
122.5°	117.2	134.0	234.4	421.9	497.8
125°	127.5	142.9	230.7	389.9	460.0
127.5°	135.8	151.5	227.5	364.2	423.3
130°	140.4	157.2	226.4	348.0	402.7
132.5°	145.0	161.8	225.3	334.1	383.2
135°	151.9	167.3	223.5	314.8	356.8
137.5°	159.1	174.2	223.3	300.3	334.7
140°	164.8	178.8	222.1	288.8	321.0
142.5°	169.4	182.3	222.1	280.6	308.4
145°	176.3	187.5	220.7	268.4	289.5
147.5°	183.1	194.1	220.7	258.3	275.7
150°	187.7	197.5	220.7	252.5	266.5
152.5°	192.3	199.9	220.7	247.9	258.5
155°	199.2	204.8	220.7	242.3	249.3
157.5°	204.3	209.7	220.7	237.4	242.5
160°	207.8	212.0	220.7	235.1	237.9
162.5°	211.2	214.3	220.7	232.8	235.6
165°	214.9	217.7	220.7	229.3	232.1
167.5°	218.4	219.8	222.1	227.9	229.0
170°	220.7	222.1	222.1	227.8	227.8
172.5°	221.8	222.1	222.1	226.7	225.5
175°	223.5	223.5	222.1	225.0	225.0
177.5°	223.5	223.5	222.4	224.7	223.5
180°	223.5	223.5	223.5	223.5	223.5

(END OF REPORT)