

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: P562050

Luminaire Tested: **SQ4-PR1-125U-075D-92765-1D-UNV-STD-W-4 (2700K)**

Issue Date: 7/30/2021

Test Information

Test Method: LM-79-2019
Report Number: P562050
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2101-105-51, 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-075D-92765-1D-UNV-STD-W-4 (2700K)
Description: CORELITE SQ4 SUSPENDED LED LUMINAIRE WITH PERCEIVE RIPPLE CONTINUOUS LENS
DOWNLIGHT 750 LUMENS PER FOOT
UPLIGHT 1250 LUMENS PER FOOT
Light Source: 2700K/65000K CCT, 90 CRI LEDS, TUNED TO 2700K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

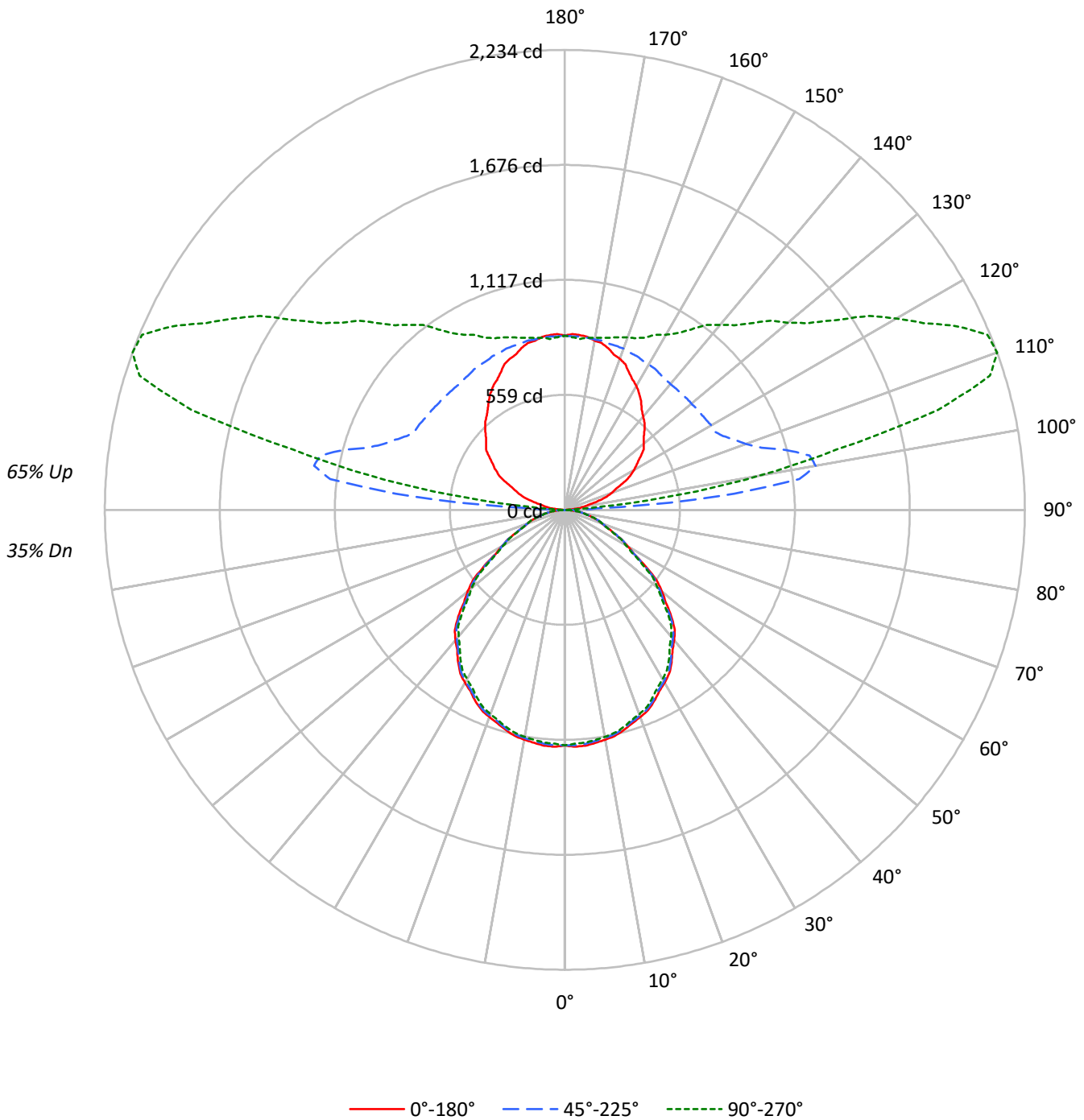
Lumens per Lamp: N/A
Luminaire Lumens: 8115.1 lumens
Efficiency: N/A
Efficacy: 110.9 lumens/watt
Spacing Criteria (0/90/45): 1.26 / 1.24 / 1.35
Luminous Opening: Rectangular (W 0.29' x L: 4' x H: 0')
CIE Type: Semi-Indirect

Input Watts (W): 73.2
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	104	104	104	104	94	94	94	94	75	75	75	58	58	58	43	43	43	35
1	95	91	87	83	85	82	79	76	66	64	62	51	50	49	38	37	36	30
2	86	79	73	68	78	72	67	63	58	55	52	45	43	41	34	32	31	26
3	79	70	63	57	71	63	57	53	51	47	44	40	37	35	30	28	26	22
4	72	62	54	48	65	56	50	45	46	41	37	36	33	30	27	25	23	19
5	66	55	47	41	60	50	43	38	41	36	32	32	29	26	24	22	20	17
6	61	49	41	36	55	45	38	33	37	32	28	29	26	23	22	20	18	15
7	56	44	37	31	51	41	34	29	33	28	25	26	23	20	20	18	16	13
8	52	40	33	28	47	37	30	26	30	25	22	24	21	18	18	16	14	12
9	49	37	29	25	44	34	27	23	28	23	19	22	19	16	17	15	13	10
10	45	34	27	22	41	31	25	20	25	21	17	20	17	14	16	13	12	10

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	10558	10558	10558
5°	10653	10571	10516
10°	10619	10546	10490
15°	10573	10507	10450
20°	10519	10452	10375
25°	10446	10375	10255
30°	10333	10259	10112
35°	10181	10092	9948
40°	9948	9841	9664
45°	9543	9376	9183
50°	8829	8616	8447
55°	7705	7531	7372
60°	6493	6438	6311
65°	5617	5639	5595
70°	5158	5185	5185
75°	4955	4955	4991
80°	4660	4713	4660
85°	3758	4171	4171



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	108.2	1.3
10°-20°	309.6	3.8
20°-30°	467.0	5.8
30°-40°	556.4	6.9
40°-50°	548.6	6.8
50°-60°	419.3	5.2
60°-70°	259.5	3.2
70°-80°	147.4	1.8
80°-90°	44.8	0.6
90°-100°	385.4	4.7
100°-110°	1096.7	13.5
110°-120°	1050.8	12.9
120°-130°	831.6	10.2
130°-140°	667.5	8.2
140°-150°	522.6	6.4
150°-160°	382.4	4.7
160°-170°	236.8	2.9
170°-180°	80.4	1.0
0°-30°	884.9	10.9
0°-40°	1441.3	17.8
0°-60°	2409.2	29.7
0°-90°	2860.8	35.3
90°-120°	2532.9	31.2
90°-150°	4554.7	56.1
90°-180°	5254.0	64.7
0°-180°	8115.1	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1144	1144	1144	1144	1144	
5°	1150	1138	1141	1137	1136	109
15°	1107	1095	1100	1096	1094	312
25°	1026	1014	1019	1008	1007	472
35°	904	893	896	884	883	564
45°	731	722	719	706	704	560
55°	479	471	468	460	458	429
65°	257	255	258	256	256	261
75°	139	139	139	140	140	147
85°	36	37	39	39	39	41
90°	0	0	0	0	0	3
95°	42	166	746	258	159	48
105°	170	258	1118	1974	1877	180
115°	317	383	848	1795	2108	312
125°	447	496	809	1342	1605	400
135°	547	592	799	1134	1282	422
145°	645	678	806	981	1069	403
155°	736	754	825	887	923	340
165°	814	817	835	853	865	229
175°	852	848	844	839	833	81
180°	846	846	846	846	846	

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CATALOG NUMBER: SQ4-PR1-125U-075D-92765-1D-UNV-STD-W-4 (2700K)

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1144.4	1144.4	1144.4	1144.4	1144.4
2.5°	1151.5	1141.5	1144.4	1141.9	1136.5
5°	1150.3	1137.8	1141.4	1137.4	1135.5
7.5°	1141.4	1129.1	1132.8	1128.8	1127.6
10°	1133.5	1122.0	1125.7	1121.7	1119.7
12.5°	1124.9	1112.5	1117.0	1112.2	1110.3
15°	1106.9	1095.4	1100.0	1096.0	1094.1
17.5°	1087.2	1074.9	1079.5	1074.9	1072.4
20°	1071.4	1059.9	1064.5	1057.6	1056.7
22.5°	1054.1	1042.5	1047.2	1037.9	1037.7
25°	1026.1	1013.6	1019.2	1008.3	1007.4
27.5°	992.8	981.2	985.9	974.8	973.7
30°	969.9	958.4	963.0	951.1	949.2
32.5°	943.9	933.1	937.0	925.1	924.0
35°	903.9	893.3	896.0	884.1	883.2
37.5°	858.3	848.7	850.3	837.2	836.3
40°	826.0	816.4	817.1	803.3	802.4
42.5°	790.5	780.9	780.1	766.3	765.3
45°	731.4	721.7	718.6	705.7	703.8
47.5°	664.0	654.3	648.4	637.9	636.6
50°	615.1	605.4	600.3	591.3	588.5
52.5°	562.2	552.6	548.2	540.1	537.2
55°	479.0	471.3	468.2	460.3	458.3
57.5°	400.0	394.8	393.9	386.2	385.4
60°	351.9	349.0	348.9	342.0	342.0
62.5°	310.9	308.8	310.3	305.7	305.0
65°	257.3	255.3	258.3	256.3	256.3
67.5°	214.9	214.9	216.7	215.9	215.9
70°	191.2	191.2	192.2	192.2	192.2
72.5°	169.9	169.2	171.7	171.7	170.9
75°	139.0	139.0	139.0	140.0	140.0
77.5°	108.2	108.4	109.2	109.0	108.2
80°	87.7	88.7	88.7	87.7	87.7
82.5°	67.2	68.2	68.2	68.0	67.2
85°	35.5	37.4	39.4	39.4	39.4
87.5°	10.3	13.3	15.8	15.8	15.0
90°	0.0	0.0	0.0	0.0	0.0
92.5°	12.9	68.2	158.2	46.1	34.7
95°	41.8	166.0	746.2	258.3	159.2
97.5°	76.9	194.5	1149.2	822.3	563.5
100°	101.3	211.4	1236.6	1252.6	964.9
102.5°	128.3	229.6	1217.3	1603.4	1352.1
105°	170.5	258.5	1117.6	1974.1	1876.7
107.5°	213.2	292.2	1001.2	2078.7	2165.5
110°	242.8	316.7	934.3	2038.7	2233.7

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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	271.1	341.3	889.3	1944.1	2222.1
115°	316.8	382.8	847.5	1795.3	2108.2
117.5°	357.0	419.0	822.7	1632.7	1964.1
120°	389.2	441.0	820.1	1539.7	1857.4
122.5°	414.9	466.8	813.7	1458.2	1753.2
125°	447.1	495.8	808.9	1342.3	1604.9
127.5°	482.1	527.7	806.3	1273.1	1489.4
130°	500.1	545.7	802.4	1224.8	1413.5
132.5°	519.4	563.8	802.4	1187.2	1360.8
135°	546.8	592.4	799.2	1133.9	1281.7
137.5°	572.5	616.8	798.9	1088.7	1216.4
140°	591.8	637.4	797.6	1051.3	1173.9
142.5°	613.7	651.7	801.5	1021.4	1131.5
145°	644.8	677.9	805.7	981.3	1069.4
147.5°	671.5	703.6	812.7	940.9	1017.0
150°	694.7	716.7	815.3	927.5	980.9
152.5°	712.7	736.0	817.9	909.4	959.1
155°	736.5	753.8	825.0	886.9	923.1
157.5°	766.1	776.5	826.6	876.7	902.5
160°	781.5	789.4	833.0	868.9	890.9
162.5°	790.5	799.7	834.3	862.3	879.3
165°	813.7	816.8	834.6	852.6	865.2
167.5°	829.5	826.6	842.0	850.2	855.2
170°	834.6	833.0	839.4	841.2	847.5
172.5°	846.2	840.8	843.3	838.6	843.6
175°	852.3	847.6	844.3	839.3	833.0
177.5°	854.9	847.3	843.3	838.2	839.4
180°	845.9	845.9	845.9	845.9	845.9

(END OF REPORT)