

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: P563234

Luminaire Tested: **SQ4-PP3-025U-100D-840-1D-UNV-STD-W-4**

Issue Date: 7/30/2021

Test Information

Test Method: LM-79-2019
Report Number: P563234
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1910-536-32, G2-2103-172-1)
Test Lab: INNOVATION CENTER
Issue Date: 7/30/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: CORELITE
Catalog Number: SQ4-PP3-025U-100D-840-1D-UNV-STD-W-4
Description: CORELITE SQ4 SUSPENDED LED LUMINAIRE WITH PERCEIVE PRISM CONTINUOUS LENS.
DOWNLIGHT 1000 LUMENS PER FOOT
UPLIGHT 250 LUMENS PER FOOT
Light Source: 4000K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

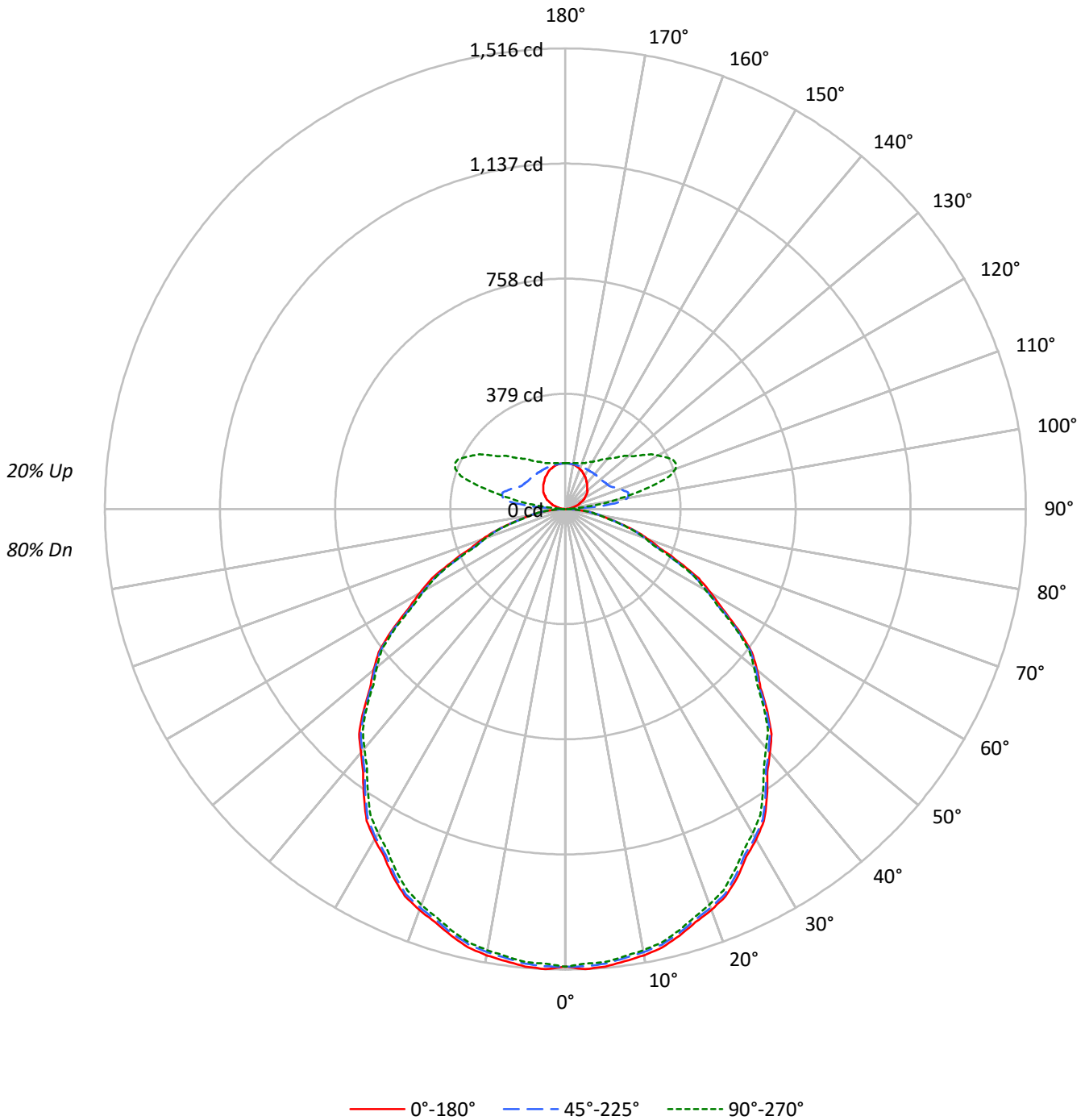
Lumens per Lamp: N/A
Luminaire Lumens: 4832.4 lumens
Efficiency: N/A
Efficacy: 124.9 lumens/watt
Spacing Criteria (0/90/45): 1.24 / 1.22 / 1.33
Luminous Opening: Rectangular (W 0.29' x L: 4' x H: 0')
CIE Type: Semi-Direct

Input Watts (W): 38.7
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	114	114	114	114	109	109	109	109	100	100	100	91	91	91	83	83	83	80
1	105	100	96	93	100	96	93	90	88	86	83	81	79	77	74	73	71	68
2	96	88	82	76	91	85	79	74	78	73	69	72	68	65	66	63	60	57
3	88	78	70	64	83	75	68	62	69	63	59	64	59	55	59	55	52	49
4	80	69	61	55	76	66	59	53	61	55	50	57	52	47	52	48	45	42
5	74	62	53	47	70	59	52	46	55	49	44	51	46	41	47	43	39	37
6	68	56	47	41	65	54	46	40	50	43	38	46	41	36	43	38	35	32
7	63	50	42	36	60	49	41	35	45	39	34	42	37	32	39	34	31	29
8	59	46	38	32	56	44	37	32	41	35	30	39	33	29	36	31	28	26
9	55	42	34	29	52	41	33	28	38	32	27	36	30	26	33	29	25	23
10	51	39	31	26	49	38	30	26	35	29	25	33	28	24	31	26	23	21

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	13899	13899	13899
5°	14001	13916	13867
10°	13978	13879	13818
15°	13885	13810	13734
20°	13794	13716	13612
25°	13630	13535	13401
30°	13378	13307	13138
35°	13027	12938	12775
40°	12611	12532	12388
45°	12266	12180	12060
50°	11826	11750	11636
55°	11215	11065	10980
60°	10208	9916	9868
65°	8994	8619	8591
70°	7764	7445	7445
75°	6684	6591	6495
80°	5892	5961	5823
85°	4615	5028	5028



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	142.5	2.9
10°-20°	406.8	8.4
20°-30°	609.3	12.6
30°-40°	714.6	14.8
40°-50°	716.9	14.8
50°-60°	611.6	12.7
60°-70°	398.8	8.3
70°-80°	200.1	4.1
80°-90°	56.2	1.2
90°-100°	73.4	1.5
100°-110°	192.9	4.0
110°-120°	200.0	4.1
120°-130°	160.4	3.3
130°-140°	125.9	2.6
140°-150°	96.6	2.0
150°-160°	69.6	1.4
160°-170°	42.6	0.9
170°-180°	14.4	0.3
0°-30°	1158.5	24.0
0°-40°	1873.2	38.8
0°-60°	3201.6	66.3
0°-90°	3856.7	79.8
90°-120°	466.2	9.6
90°-150°	849.1	17.6
90°-180°	976.0	20.2
0°-180°	4832.4	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1506	1506	1506	1506	1506	
5°	1512	1498	1503	1497	1497	144
15°	1454	1440	1446	1440	1438	410
25°	1339	1323	1330	1318	1316	616
35°	1157	1145	1149	1136	1134	723
45°	940	934	934	924	924	724
55°	697	695	688	684	683	620
65°	412	404	395	392	394	411
75°	188	188	185	184	182	203
85°	44	47	48	48	48	51
90°	1	3	8	4	4	2
95°	10	38	126	65	44	11
105°	35	53	213	324	302	37
115°	62	75	171	341	389	61
125°	86	96	155	263	310	76
135°	102	113	150	212	240	79
145°	119	126	149	181	195	74
155°	134	138	149	163	168	62
165°	145	147	149	154	156	41
175°	150	150	150	152	152	14
180°	150	150	150	150	150	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1506.5	1506.5	1506.5	1506.5	1506.5
2.5°	1516.0	1503.7	1506.5	1504.3	1498.1
5°	1511.8	1497.6	1502.6	1497.3	1497.3
7.5°	1501.5	1486.0	1491.0	1485.7	1485.4
10°	1492.0	1476.5	1481.5	1476.1	1474.9
12.5°	1478.3	1462.8	1468.8	1462.4	1462.2
15°	1453.7	1439.5	1445.8	1440.5	1437.9
17.5°	1426.0	1410.5	1418.1	1410.7	1409.6
20°	1404.9	1389.4	1397.0	1386.4	1386.4
22.5°	1379.5	1364.0	1372.7	1358.9	1358.9
25°	1338.9	1323.4	1329.6	1317.7	1316.4
27.5°	1290.5	1275.3	1281.8	1268.3	1268.1
30°	1255.7	1241.5	1249.1	1234.5	1233.2
32.5°	1217.6	1204.5	1210.0	1195.4	1194.1
35°	1156.6	1145.0	1148.7	1135.5	1134.2
37.5°	1092.5	1080.6	1084.8	1073.4	1072.9
40°	1047.1	1039.3	1040.5	1031.2	1028.6
42.5°	1004.8	996.0	997.1	987.9	987.4
45°	940.1	933.6	933.5	924.3	924.3
47.5°	871.4	866.5	865.1	857.4	857.2
50°	823.9	820.0	818.6	812.0	810.7
52.5°	774.3	772.5	767.9	762.4	762.1
55°	697.2	694.6	687.9	683.9	682.6
57.5°	613.4	608.3	600.8	595.0	596.0
60°	553.2	548.1	537.4	534.8	534.8
62.5°	495.1	488.9	478.2	474.6	476.7
65°	412.0	404.2	394.8	392.2	393.5
67.5°	336.4	329.5	319.3	319.2	318.2
70°	287.8	284.0	276.0	276.0	276.0
72.5°	244.5	242.7	236.9	236.9	235.8
75°	187.5	187.5	184.9	183.5	182.2
77.5°	140.5	141.0	139.7	138.3	136.0
80°	110.9	113.5	112.2	110.9	109.6
82.5°	83.4	86.0	85.8	83.4	83.2
85°	43.6	47.4	47.5	47.5	47.5
87.5°	11.8	16.3	18.4	17.7	18.7
90°	1.0	2.9	7.7	3.9	3.9
92.5°	4.1	19.5	43.2	19.1	12.4
95°	9.6	38.0	126.4	65.1	44.4
97.5°	16.8	41.7	189.1	150.4	110.8
100°	22.2	44.8	208.4	211.2	164.0
102.5°	26.8	48.0	213.8	263.1	222.7
105°	34.7	52.7	213.2	323.7	302.0
107.5°	42.8	59.4	201.1	355.2	360.5
110°	48.2	63.3	191.1	363.3	386.0



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	53.6	68.0	181.8	358.2	392.9
115°	61.8	75.0	170.8	340.7	388.9
117.5°	69.7	81.7	163.3	316.5	369.9
120°	74.3	85.6	160.2	300.3	352.2
122.5°	78.9	90.3	157.9	284.1	335.2
125°	85.9	96.3	155.3	262.6	309.7
127.5°	91.5	102.0	153.2	245.2	285.0
130°	94.6	105.9	152.5	234.3	271.1
132.5°	97.6	109.0	151.7	225.0	258.0
135°	102.3	112.7	150.5	212.0	240.3
137.5°	107.1	117.3	150.3	202.2	225.4
140°	111.0	120.4	149.6	194.4	216.1
142.5°	114.1	122.7	149.6	189.0	207.6
145°	118.7	126.2	148.6	180.8	194.9
147.5°	123.3	130.7	148.6	173.9	185.6
150°	126.4	133.0	148.6	170.0	179.5
152.5°	129.5	134.6	148.6	166.9	174.1
155°	134.1	137.9	148.6	163.2	167.9
157.5°	137.6	141.2	148.6	159.9	163.3
160°	139.9	142.7	148.6	158.3	160.2
162.5°	142.2	144.3	148.6	156.7	158.6
165°	144.7	146.6	148.6	154.4	156.3
167.5°	147.1	148.0	149.6	153.4	154.2
170°	148.6	149.5	149.6	153.4	153.4
172.5°	149.4	149.6	149.6	152.6	151.9
175°	150.5	150.5	149.6	151.5	151.5
177.5°	150.5	150.5	149.8	151.3	150.5
180°	150.5	150.5	150.5	150.5	150.5

(END OF REPORT)