

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: P563488

Luminaire Tested: **SQ4-PP3-0U-050D-940-1D-UNV-STD-W-8**

Issue Date: 7/30/2021

Test Information

Test Method: LM-79-2019
Report Number: P563488
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (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-PP3-0U-050D-940-1D-UNV-STD-W-8
Description: CORELITE SQ4 SUSPENDED LED LUMINAIRE WITH PERCEIVE PRISM CONTINUOUS LENS.
DOWNLIGHT 500 LUMENS PER FOOT
DIRECT ONLY
Light Source: 4000K CCT, 90 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3370.3 lumens
Efficiency: N/A
Efficacy: 95.7 lumens/watt
Spacing Criteria (0/90/45): 1.24 / 1.22 / 1.33
Luminous Opening: Rectangular (W 0.29' x L: 8' x H: 0')
CIE Type: Direct

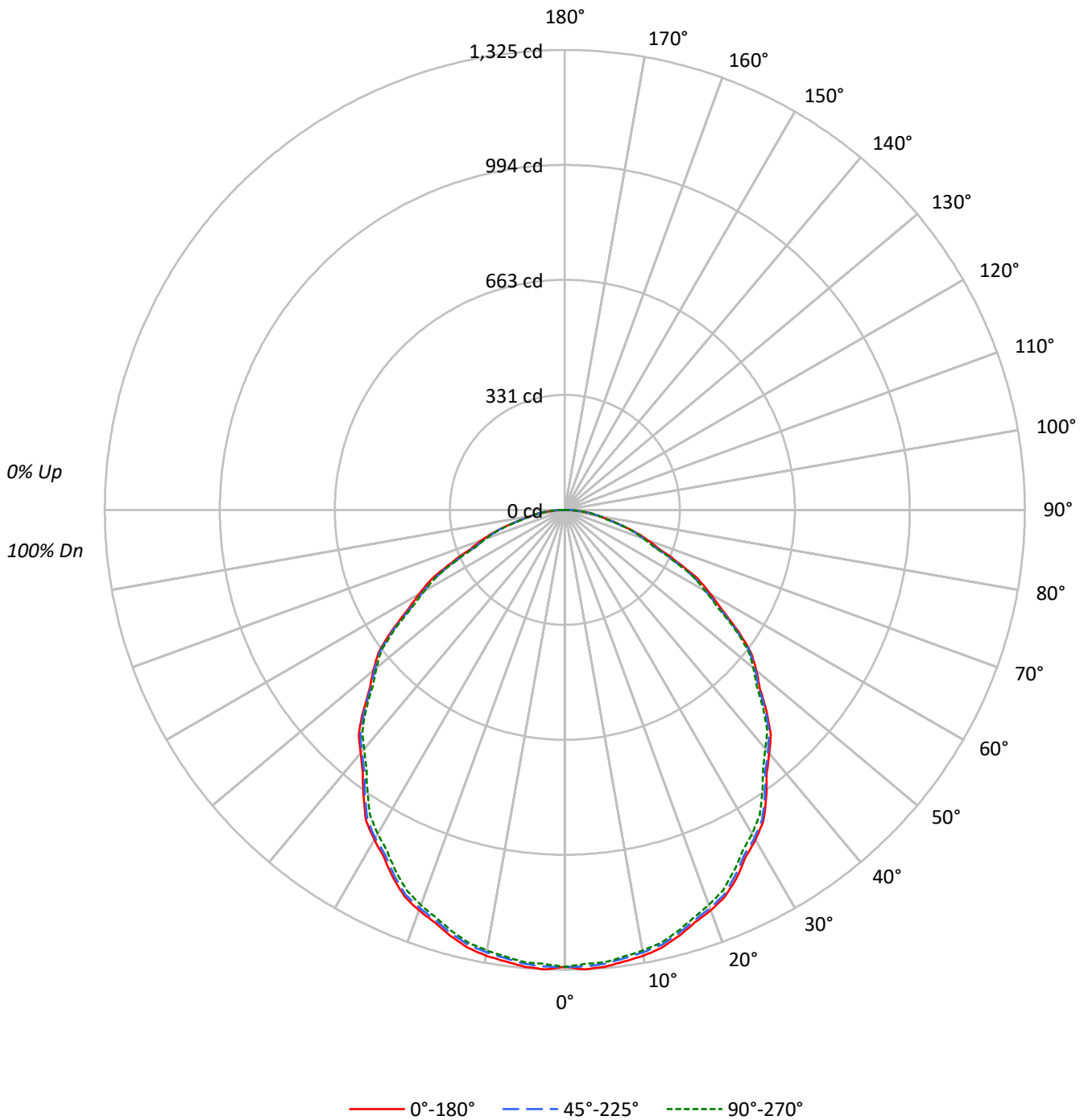
Input Watts (W): 35.2
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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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	119	119	119	119	116	116	116	116	111	111	111		106	106	106		102	102	102	100
1	109	105	101	97	107	103	99	96	98	95	93		95	92	90		91	89	87	85
2	100	92	86	80	97	90	84	79	87	82	77		84	79	76		81	77	74	72
3	92	81	74	67	89	80	73	67	77	71	66		74	69	64		72	67	63	61
4	84	72	64	57	82	71	63	57	69	62	56		66	60	56		64	59	55	53
5	77	65	56	50	75	64	56	49	62	54	49		60	53	48		58	52	48	46
6	72	59	50	44	70	58	49	43	56	49	43		54	48	43		53	47	42	40
7	66	53	45	39	65	52	44	39	51	44	38		49	43	38		48	42	38	36
8	62	49	40	35	60	48	40	34	47	39	34		45	39	34		44	38	34	32
9	58	45	37	31	56	44	36	31	43	36	31		42	35	31		41	35	31	29
10	54	41	34	28	53	41	33	28	40	33	28		39	33	28		38	32	28	26

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	6075	6075	6075
5°	6119	6082	6060
10°	6109	6066	6038
15°	6069	6035	6002
20°	6028	5994	5949
25°	5957	5916	5857
30°	5846	5816	5742
35°	5694	5655	5583
40°	5511	5476	5414
45°	5361	5323	5271
50°	5169	5135	5085
55°	4901	4836	4799
60°	4462	4334	4312
65°	3931	3767	3754
70°	3394	3253	3253
75°	2921	2880	2839
80°	2574	2606	2545
85°	2017	2197	2197



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	124.5	3.7
10°-20°	355.5	10.5
20°-30°	532.6	15.8
30°-40°	624.7	18.5
40°-50°	626.6	18.6
50°-60°	534.6	15.9
60°-70°	348.6	10.3
70°-80°	174.9	5.2
80°-90°	48.4	1.4
90°-100°	0.0	0.0
100°-110°	0.0	0.0
110°-120°	0.0	0.0
120°-130°	0.0	0.0
130°-140°	0.0	0.0
140°-150°	0.0	0.0
150°-160°	0.0	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-30°	1012.6	30.0
0°-40°	1637.3	48.6
0°-60°	2798.4	83.0
0°-90°	3370.3	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3370.3	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1317	1317	1317	1317	1317	
5°	1321	1309	1313	1309	1309	125
15°	1271	1258	1264	1259	1257	358
25°	1170	1157	1162	1152	1151	538
35°	1011	1001	1004	992	991	632
45°	822	816	816	808	808	633
55°	609	607	601	598	597	542
65°	360	353	345	343	344	359
75°	164	164	162	160	159	178
85°	38	42	42	42	42	46
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1316.8	1316.8	1316.8	1316.8	1316.8
2.5°	1325.1	1314.3	1316.8	1314.9	1309.4
5°	1321.4	1309.0	1313.4	1308.7	1308.7
7.5°	1312.4	1298.9	1303.2	1298.6	1298.4
10°	1304.1	1290.6	1294.9	1290.3	1289.1
12.5°	1292.1	1278.6	1283.8	1278.3	1278.0
15°	1270.7	1258.2	1263.7	1259.1	1256.8
17.5°	1246.4	1232.9	1239.5	1233.0	1232.1
20°	1228.0	1214.4	1221.0	1211.8	1211.8
22.5°	1205.8	1192.3	1199.8	1187.8	1187.8
25°	1170.3	1156.7	1162.2	1151.8	1150.6
27.5°	1128.0	1114.7	1120.4	1108.6	1108.4
30°	1097.5	1085.1	1091.8	1079.1	1077.9
32.5°	1064.3	1052.8	1057.6	1044.9	1043.8
35°	1011.0	1000.8	1004.1	992.5	991.4
37.5°	954.9	944.5	948.2	938.3	937.8
40°	915.2	908.4	909.4	901.3	899.0
42.5°	878.3	870.6	871.6	863.5	863.0
45°	821.7	816.1	815.9	807.9	807.9
47.5°	761.7	757.4	756.2	749.5	749.2
50°	720.2	716.8	715.5	709.7	708.6
52.5°	676.8	675.2	671.2	666.4	666.1
55°	609.4	607.1	601.3	597.8	596.7
57.5°	536.2	531.7	525.1	520.1	521.0
60°	483.6	479.1	469.7	467.4	467.4
62.5°	432.8	427.4	418.0	414.8	416.6
65°	360.1	353.3	345.1	342.8	343.9
67.5°	294.1	288.0	279.1	279.0	278.1
70°	251.6	248.2	241.2	241.2	241.2
72.5°	213.7	212.2	207.0	207.0	206.1
75°	163.9	163.9	161.6	160.4	159.3
77.5°	122.8	123.2	122.1	120.9	118.9
80°	96.9	99.2	98.1	96.9	95.8
82.5°	72.9	75.2	75.0	72.9	72.7
85°	38.1	41.5	41.5	41.5	41.5
87.5°	10.2	13.8	14.8	14.8	15.7
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)