

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: P563476

Luminaire Tested: **SQ4-PP3-0U-050D-840-1D-UNV-STD-W-8**

Issue Date: 7/30/2021

Test Information

Test Method: LM-79-2019
Report Number: P563476
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-840-1D-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, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

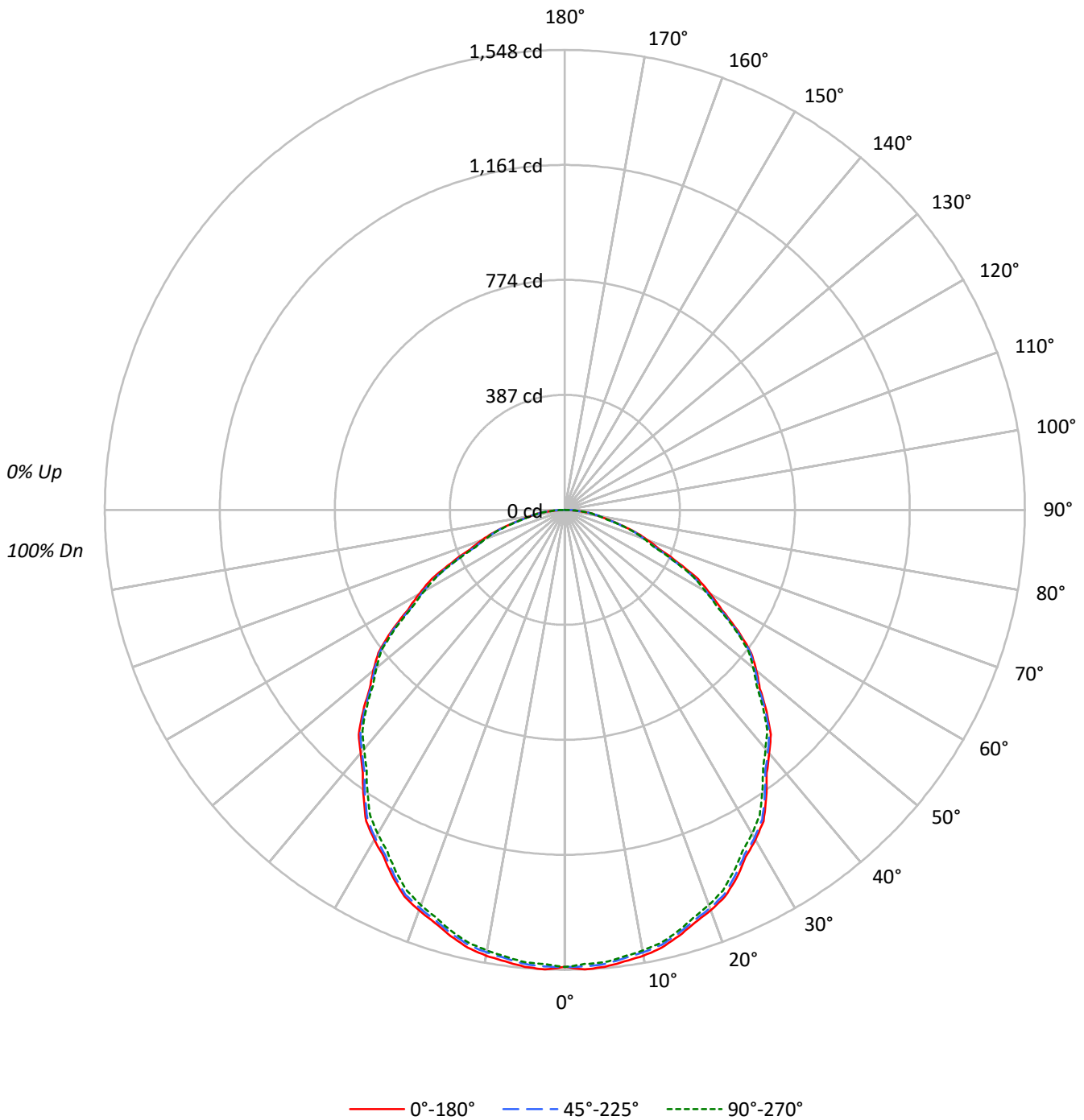
Lumens per Lamp: N/A
Luminaire Lumens: 3937.9 lumens
Efficiency: N/A
Efficacy: 111.9 lumens/watt
Spacing Criteria (0/90/45): 1.24 / 1.22 / 1.33
Luminous Opening: Rectangular (W 0.29' x L: 8' x H: 0')
CIE Type: Direct

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°	7098	7098	7098
5°	7150	7106	7081
10°	7137	7087	7055
15°	7090	7052	7013
20°	7044	7004	6951
25°	6960	6912	6843
30°	6831	6795	6709
35°	6652	6607	6523
40°	6439	6399	6325
45°	6264	6220	6158
50°	6038	6000	5942
55°	5726	5650	5607
60°	5213	5063	5038
65°	4592	4401	4386
70°	3965	3801	3801
75°	3413	3365	3317
80°	3010	3044	2973
85°	2355	2567	2567



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	145.5	3.7
10°-20°	415.4	10.5
20°-30°	622.2	15.8
30°-40°	729.9	18.5
40°-50°	732.1	18.6
50°-60°	624.6	15.9
60°-70°	407.3	10.3
70°-80°	204.4	5.2
80°-90°	56.6	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°	1183.1	30.0
0°-40°	1913.0	48.6
0°-60°	3269.7	83.0
0°-90°	3937.9	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3937.9	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1539	1539	1539	1539	1539	
5°	1544	1530	1534	1529	1529	147
15°	1485	1470	1477	1471	1468	419
25°	1367	1352	1358	1346	1344	629
35°	1181	1169	1173	1160	1158	738
45°	960	954	953	944	944	739
55°	712	709	702	698	697	633
65°	421	413	403	400	402	420
75°	192	192	189	187	186	208
85°	44	48	48	48	48	54
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1538.6	1538.6	1538.6	1538.6	1538.6
2.5°	1548.3	1535.6	1538.6	1536.3	1530.0
5°	1544.0	1529.5	1534.5	1529.1	1529.1
7.5°	1533.5	1517.6	1522.7	1517.3	1517.0
10°	1523.7	1507.9	1513.0	1507.5	1506.2
12.5°	1509.7	1493.9	1500.0	1493.5	1493.3
15°	1484.6	1470.1	1476.6	1471.1	1468.5
17.5°	1456.3	1440.5	1448.2	1440.7	1439.6
20°	1434.8	1418.9	1426.7	1415.9	1415.9
22.5°	1408.9	1393.0	1401.8	1387.8	1387.8
25°	1367.3	1351.5	1357.9	1345.7	1344.4
27.5°	1318.0	1302.4	1309.1	1295.3	1295.1
30°	1282.4	1267.9	1275.6	1260.8	1259.5
32.5°	1243.5	1230.1	1235.7	1220.9	1219.5
35°	1181.2	1169.4	1173.2	1159.6	1158.3
37.5°	1115.7	1103.6	1107.9	1096.3	1095.7
40°	1069.3	1061.4	1062.6	1053.1	1050.4
42.5°	1026.2	1017.2	1018.3	1008.9	1008.4
45°	960.1	953.5	953.4	943.9	943.9
47.5°	890.0	885.0	883.5	875.7	875.4
50°	841.4	837.5	836.0	829.3	827.9
52.5°	790.7	788.9	784.3	778.6	778.3
55°	712.0	709.3	702.5	698.5	697.1
57.5°	626.5	621.2	613.5	607.6	608.7
60°	565.0	559.7	548.8	546.1	546.1
62.5°	505.7	499.3	488.4	484.7	486.8
65°	420.7	412.8	403.2	400.5	401.8
67.5°	343.6	336.5	326.1	326.0	325.0
70°	294.0	290.0	281.8	281.8	281.8
72.5°	249.7	247.9	241.9	241.9	240.8
75°	191.5	191.5	188.8	187.4	186.1
77.5°	143.5	144.0	142.7	141.3	138.9
80°	113.3	115.9	114.6	113.2	111.9
82.5°	85.2	87.9	87.6	85.2	85.0
85°	44.5	48.5	48.5	48.5	48.5
87.5°	11.9	16.1	17.3	17.3	18.3
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)