

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: P563468

Luminaire Tested: **SQ4-PP3-0U-050D-830-1D-UNV-STD-W-8**

Issue Date: 7/30/2021

Test Information

Test Method: LM-79-2019
Report Number: P563468
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-830-1D-UNV-STD-W-8
Description: CORELITE SQ4 SUSPENDED LED LUMINAIRE WITH PERCEIVE PRISM CONTINUOUS LENS.
DOWNLIGHT 500 LUMENS PER FOOT
DIRECT ONLY
Light Source: 3000K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

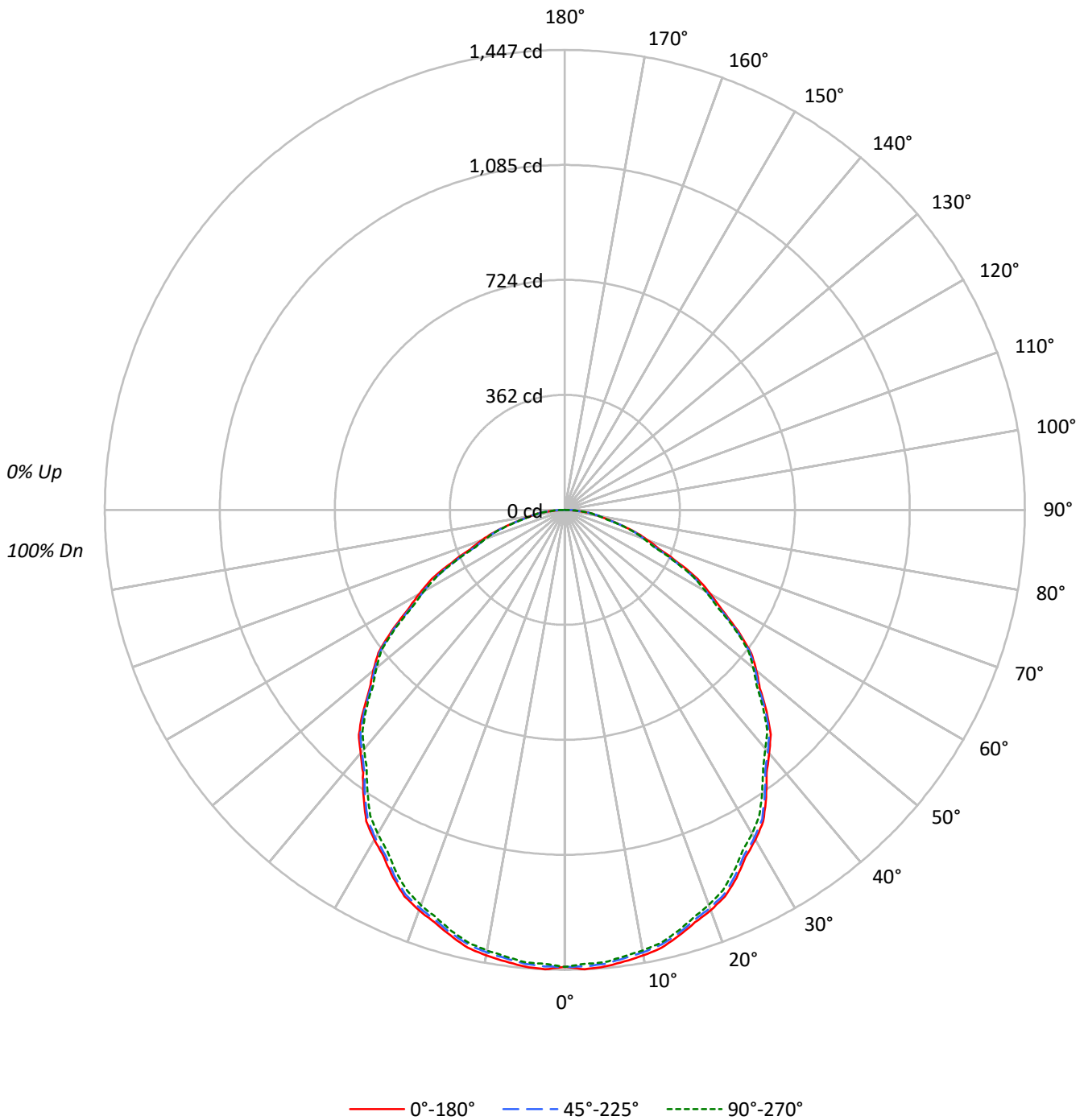
Lumens per Lamp: N/A
Luminaire Lumens: 3679.9 lumens
Efficiency: N/A
Efficacy: 104.5 lumens/watt
Spacing Criteria (0/90/45): 1.24 / 1.22 / 1.33
Luminous Opening: Rectangular (W 0.29' x L: 8' x H: 0')
CIE Type: Direct

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	50	30	10	0	
RCR																						
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100				100
1	109	105	101	97	107	103	99	96	98	95	93	95	92	90	91	89	87	85				85
2	100	92	86	80	97	90	84	79	87	82	77	84	79	76	81	77	74	72				72
3	92	81	74	67	89	80	73	67	77	71	66	74	69	64	72	67	63	61				61
4	84	72	64	57	82	71	63	57	69	62	56	66	60	56	64	59	55	53				53
5	77	65	56	50	75	64	56	49	62	54	49	60	53	48	58	52	48	46				46
6	72	59	50	44	70	58	49	43	56	49	43	54	48	43	53	47	42	40				40
7	66	53	45	39	65	52	44	39	51	44	38	49	43	38	48	42	38	36				36
8	62	49	40	35	60	48	40	34	47	39	34	45	39	34	44	38	34	32				32
9	58	45	37	31	56	44	36	31	43	36	31	42	35	31	41	35	31	29				29
10	54	41	34	28	53	41	33	28	40	33	28	39	33	28	38	32	28	26				26

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	6633	6633	6633
5°	6681	6640	6617
10°	6670	6623	6593
15°	6626	6590	6554
20°	6582	6545	6495
25°	6504	6459	6395
30°	6384	6350	6269
35°	6217	6174	6096
40°	6018	5980	5911
45°	5853	5812	5755
50°	5643	5607	5553
55°	5351	5280	5240
60°	4871	4732	4708
65°	4292	4113	4099
70°	3705	3553	3553
75°	3189	3144	3100
80°	2811	2845	2779
85°	2202	2403	2403



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	136.0	3.7
10°-20°	388.2	10.5
20°-30°	581.5	15.8
30°-40°	682.0	18.5
40°-50°	684.2	18.6
50°-60°	583.6	15.9
60°-70°	380.6	10.3
70°-80°	191.0	5.2
80°-90°	52.9	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°	1105.6	30.0
0°-40°	1787.7	48.6
0°-60°	3055.5	83.0
0°-90°	3679.9	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3679.9	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1438	1438	1438	1438	1438	
5°	1443	1429	1434	1429	1429	137
15°	1387	1374	1380	1375	1372	391
25°	1278	1263	1269	1258	1256	588
35°	1104	1093	1096	1084	1082	690
45°	897	891	891	882	882	691
55°	665	663	656	653	652	591
65°	393	386	377	374	376	392
75°	179	179	176	175	174	194
85°	42	45	45	45	45	50
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1437.8	1437.8	1437.8	1437.8	1437.8
2.5°	1446.9	1435.0	1437.8	1435.6	1429.7
5°	1442.8	1429.3	1434.0	1429.0	1429.0
7.5°	1433.0	1418.2	1422.9	1417.9	1417.6
10°	1423.9	1409.1	1413.8	1408.8	1407.5
12.5°	1410.8	1396.0	1401.7	1395.7	1395.4
15°	1387.4	1373.8	1379.8	1374.7	1372.3
17.5°	1360.9	1346.1	1353.4	1346.3	1345.3
20°	1340.8	1326.0	1333.2	1323.1	1323.1
22.5°	1316.6	1301.8	1310.0	1296.9	1296.9
25°	1277.8	1263.0	1268.9	1257.6	1256.3
27.5°	1231.6	1217.1	1223.3	1210.5	1210.2
30°	1198.4	1184.8	1192.1	1178.2	1176.9
32.5°	1162.1	1149.5	1154.8	1140.9	1139.6
35°	1103.9	1092.8	1096.3	1083.7	1082.4
37.5°	1042.6	1031.3	1035.3	1024.5	1024.0
40°	999.3	991.9	993.0	984.1	981.6
42.5°	958.9	950.6	951.6	942.8	942.3
45°	897.2	891.0	890.9	882.1	882.1
47.5°	831.7	827.0	825.6	818.3	818.1
50°	786.3	782.6	781.3	774.9	773.7
52.5°	738.9	737.2	732.9	727.6	727.3
55°	665.3	662.9	656.5	652.7	651.5
57.5°	585.4	580.5	573.4	567.8	568.8
60°	528.0	523.1	512.9	510.3	510.3
62.5°	472.5	466.6	456.4	452.9	454.9
65°	393.2	385.8	376.8	374.3	375.5
67.5°	321.1	314.4	304.7	304.7	303.7
70°	274.7	271.0	263.4	263.4	263.4
72.5°	233.4	231.6	226.1	226.0	225.1
75°	178.9	178.9	176.4	175.1	173.9
77.5°	134.1	134.6	133.3	132.0	129.8
80°	105.8	108.3	107.1	105.8	104.6
82.5°	79.6	82.1	81.9	79.6	79.4
85°	41.6	45.3	45.4	45.4	45.4
87.5°	11.1	15.0	16.1	16.2	17.1
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)