

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: P564812

Luminaire Tested: **SQ4-PW1-0U-050D-830-1D-UNV-STD-W-8**

Issue Date: 7/30/2021

Test Information

Test Method: LM-79-2019
Report Number: P564812
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2106-289-3)
Test Lab: INNOVATION CENTER
Issue Date: 7/30/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: CORELITE
Catalog Number: SQ4-PW1-0U-050D-830-1D-UNV-STD-W-8
Description: CORELITE SQ4 SUSPENDED LED LUMINAIRE WITH PERCEIVE WAVES CONTINUOUS LENS.
DOWNLIGHT 500 LUMENS PER FOOT
DIRECT ONLY
Light Source: 3000K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

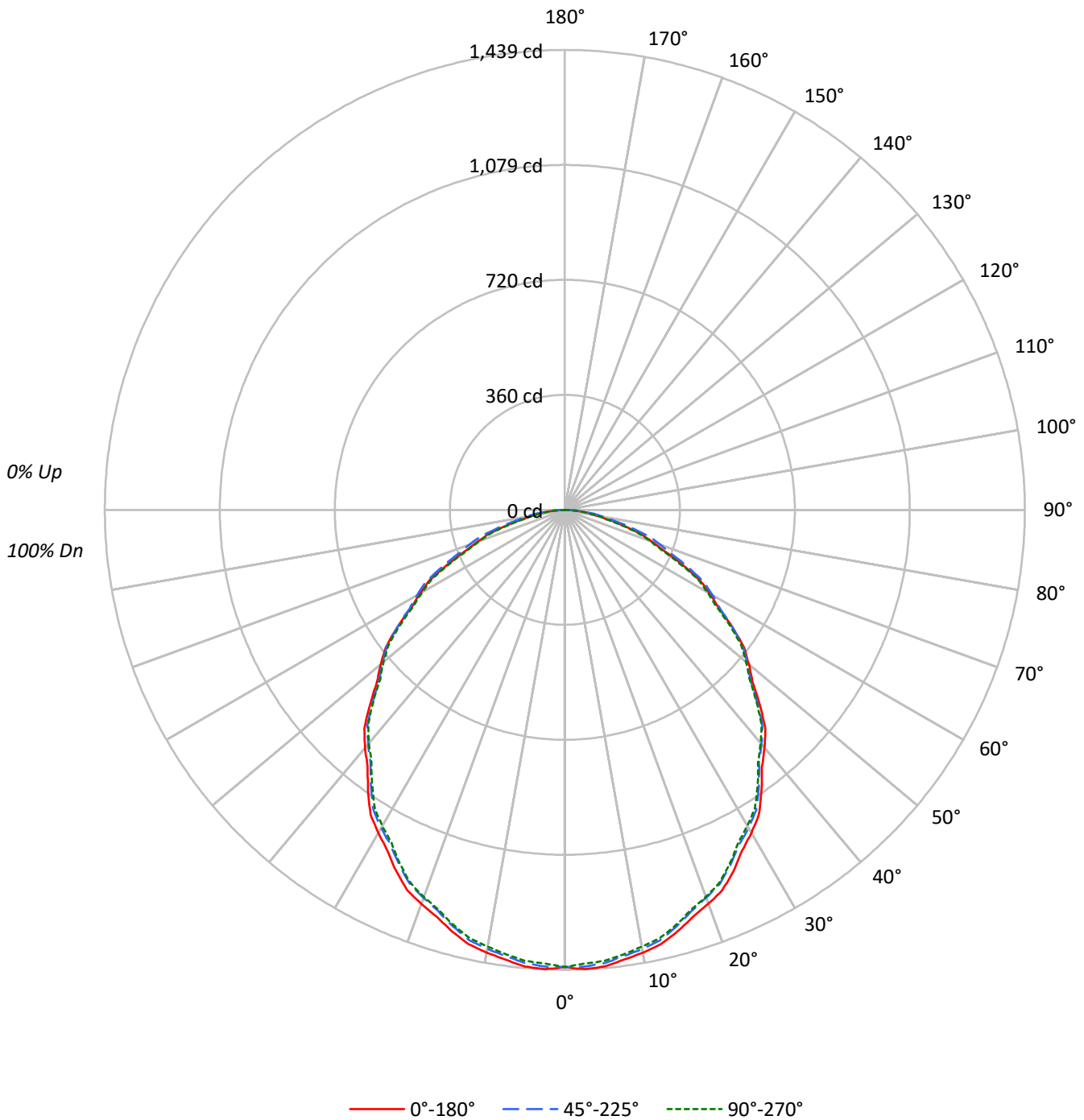
Lumens per Lamp: N/A
Luminaire Lumens: 3639.8 lumens
Efficiency: N/A
Efficacy: 103.4 lumens/watt
Spacing Criteria (0/90/45): 1.22 / 1.19 / 1.31
Luminous Opening: Rectangular (W 0.29' x L: 8' x H: 0')
CIE Type: Direct

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	102	99	95	98	95	92		94	92	89		91	89	87	85
2	100	92	85	80	97	90	84	79	86	81	77		83	79	75		80	76	73	71
3	91	81	73	67	89	79	72	66	76	70	65		74	68	64		71	66	63	60
4	84	72	63	57	81	71	63	56	68	61	56		66	60	55		64	58	54	52
5	77	64	56	49	75	63	55	49	61	54	48		59	53	48		57	52	47	45
6	71	58	49	43	69	57	49	43	55	48	42		54	47	42		52	46	42	40
7	66	53	44	38	64	52	44	38	50	43	38		49	42	37		48	42	37	35
8	62	48	40	34	60	48	40	34	46	39	34		45	38	34		44	38	33	31
9	58	44	36	31	56	44	36	31	43	35	31		42	35	30		41	35	30	28
10	54	41	33	28	53	40	33	28	39	33	28		39	32	28		38	32	28	26

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	6600	6600	6600
5°	6642	6590	6560
10°	6589	6536	6500
15°	6519	6447	6423
20°	6441	6342	6330
25°	6351	6236	6216
30°	6217	6123	6083
35°	6040	5955	5920
40°	5852	5761	5738
45°	5624	5551	5526
50°	5391	5346	5310
55°	5139	5139	5058
60°	4826	4919	4744
65°	4416	4637	4306
70°	3893	4268	3791
75°	3324	3820	3235
80°	2580	3214	2611
85°	1667	2467	2202



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	134.7	3.7
10°-20°	380.3	10.4
20°-30°	564.1	15.5
30°-40°	660.1	18.1
40°-50°	657.2	18.1
50°-60°	567.5	15.6
60°-70°	408.5	11.2
70°-80°	214.2	5.9
80°-90°	53.1	1.5
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°	1079.2	29.6
0°-40°	1739.3	47.8
0°-60°	2963.9	81.4
0°-90°	3639.8	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3639.8	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1431	1431	1431	1431	1431	
5°	1434	1418	1423	1419	1417	136
15°	1365	1348	1350	1347	1345	385
25°	1248	1227	1225	1218	1221	574
35°	1073	1058	1058	1048	1051	671
45°	862	855	851	848	847	665
55°	639	638	639	630	629	570
65°	405	417	425	408	394	401
75°	186	204	214	200	182	200
85°	32	41	47	44	42	43
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1430.6	1430.6	1430.6	1430.6	1430.6
2.5°	1438.6	1426.8	1430.6	1427.4	1420.5
5°	1434.3	1418.3	1423.0	1419.2	1416.7
7.5°	1419.7	1404.9	1408.4	1404.3	1402.8
10°	1406.6	1391.8	1395.3	1390.2	1387.7
12.5°	1391.5	1375.7	1379.1	1374.1	1372.6
15°	1365.0	1347.8	1349.9	1347.3	1344.9
17.5°	1334.3	1316.8	1317.1	1313.1	1312.6
20°	1312.1	1293.6	1291.9	1286.9	1289.4
22.5°	1287.9	1268.4	1266.7	1259.7	1263.2
25°	1247.8	1226.9	1225.1	1217.6	1221.3
27.5°	1201.4	1180.7	1180.8	1170.3	1174.2
30°	1167.1	1147.4	1149.5	1137.0	1141.9
32.5°	1130.8	1113.1	1114.2	1101.7	1106.6
35°	1072.6	1057.8	1057.5	1047.5	1051.2
37.5°	1013.1	1000.1	998.0	992.2	993.2
40°	971.8	960.7	956.7	952.9	952.9
42.5°	928.4	918.3	914.3	911.5	910.5
45°	862.1	854.7	850.8	848.2	847.0
47.5°	796.6	789.7	786.2	784.5	783.2
50°	751.2	746.3	744.9	741.1	739.9
52.5°	705.8	702.9	701.5	696.7	695.5
55°	639.0	637.8	639.0	630.2	628.9
57.5°	569.5	571.4	575.5	563.6	560.6
60°	523.1	528.0	533.2	519.2	514.2
62.5°	475.7	483.6	490.8	474.8	467.9
65°	404.6	416.9	424.8	408.1	394.5
67.5°	336.0	351.3	360.7	342.7	327.5
70°	288.6	305.9	316.4	298.3	281.1
72.5°	247.3	266.5	275.0	258.0	240.7
75°	186.5	203.8	214.3	200.0	181.5
77.5°	132.3	148.6	157.3	144.9	129.6
80°	97.1	114.3	121.0	110.6	98.3
82.5°	68.8	83.1	87.7	81.5	73.1
85°	31.5	41.4	46.6	44.1	41.6
87.5°	8.1	15.0	19.2	19.2	20.2
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)