

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: P520117

Luminaire Tested: **SQ4-F-0U-075D-935-1D-UNV-STD-W-6**

Issue Date: 4/29/2021

Test Information

Test Method: LM-79-2019
Report Number: P520117
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1910-536-18)
Test Lab: INNOVATION CENTER
Issue Date: 4/29/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: CORELITE
Catalog Number: SQ4-F-0U-075D-935-1D-UNV-STD-W-6
Description: CORELITE SQ4 SUSPENDED LED LUMINAIRE
DOWNLIGHT 750 LUMENS PER FOOT
DIRECT ONLY
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

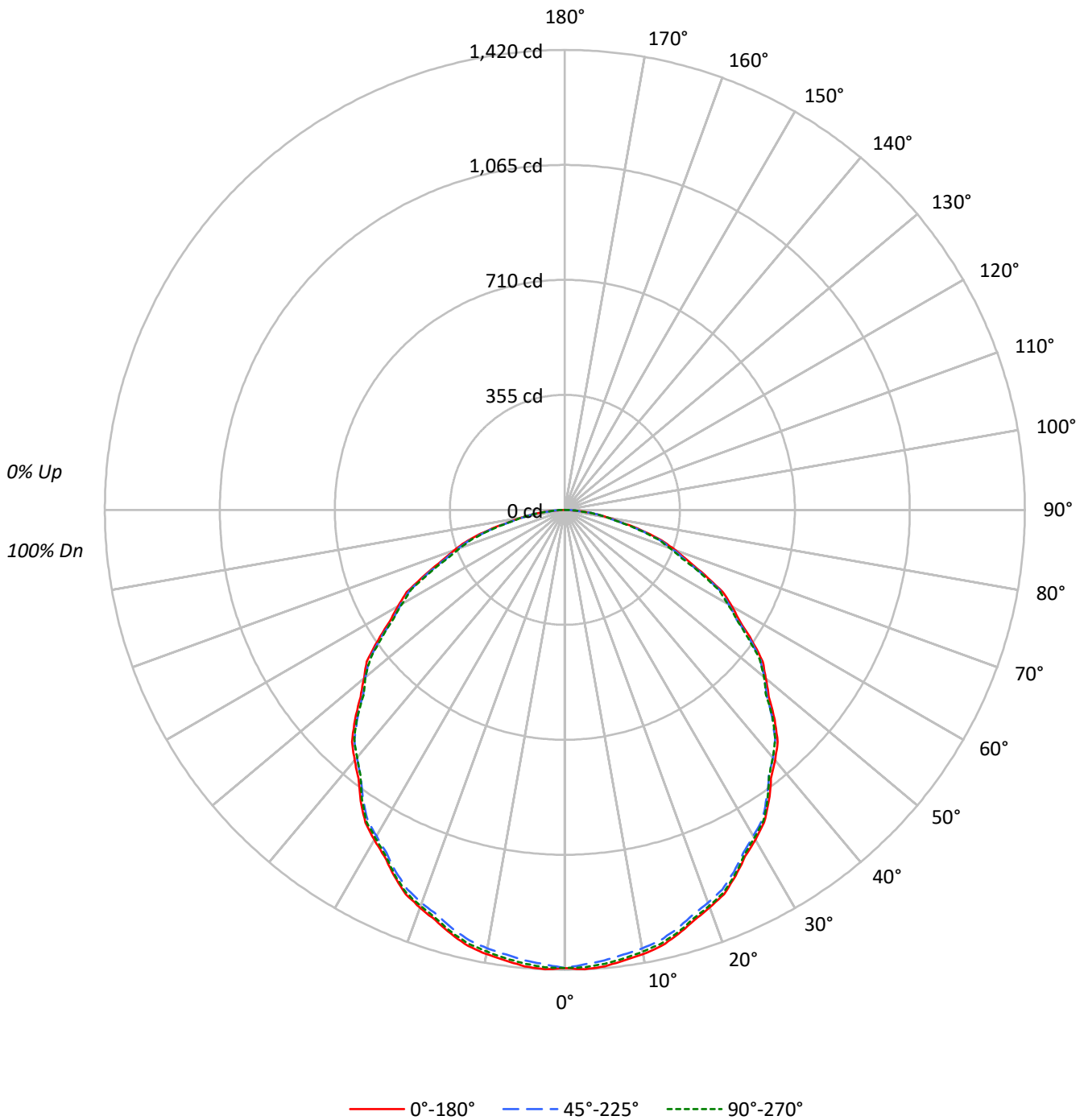
Lumens per Lamp: N/A
Luminaire Lumens: 3861.9 lumens
Efficiency: N/A
Efficacy: 103.0 lumens/watt
Spacing Criteria (0/90/45): 1.24 / 1.24 / 1.35
Luminous Opening: Rectangular (W 0.29' x L: 6' x H: 0')
CIE Type: Direct

Input Watts (W): 37.5
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	104	100	96	106	102	98	95	98	95	92	94	91	89	90	88	86	84
2	99	91	84	79	97	89	83	78	86	80	76	82	78	74	79	76	72	70
3	90	80	72	65	88	78	71	65	75	69	64	73	67	63	70	65	61	59
4	83	71	62	55	81	70	61	55	67	60	54	65	59	54	63	57	53	51
5	76	63	54	48	74	62	54	48	60	53	47	58	52	46	56	51	46	44
6	70	57	48	42	68	56	48	42	54	47	41	53	46	41	51	45	40	38
7	65	52	43	37	64	51	43	37	49	42	36	48	41	36	47	41	36	34
8	61	47	39	33	59	47	38	33	45	38	33	44	37	32	43	37	32	30
9	57	43	35	30	55	43	35	30	42	34	29	41	34	29	40	34	29	27
10	53	40	32	27	52	40	32	27	39	32	27	38	31	27	37	31	26	25

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	8702	8702	8702
5°	8735	8624	8687
10°	8699	8587	8652
15°	8632	8526	8600
20°	8554	8454	8521
25°	8460	8373	8434
30°	8353	8262	8308
35°	8244	8157	8195
40°	8105	8022	8012
45°	7966	7866	7888
50°	7744	7683	7683
55°	7564	7468	7399
60°	7322	7194	7131
65°	6925	6794	6701
70°	6503	6343	6181
75°	5851	5639	5516
80°	4679	4587	4541
85°	2809	3169	3260



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	133.5	3.5
10°-20°	380.1	9.8
20°-30°	571.1	14.8
30°-40°	681.5	17.6
40°-50°	698.9	18.1
50°-60°	622.8	16.1
60°-70°	464.3	12.0
70°-80°	251.8	6.5
80°-90°	57.9	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°	1084.8	28.1
0°-40°	1766.3	45.7
0°-60°	3087.9	80.0
0°-90°	3861.9	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3861.9	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1415	1415	1415	1415	1415	
5°	1415	1412	1397	1408	1407	134
15°	1356	1353	1339	1349	1350	382
25°	1247	1245	1234	1240	1243	574
35°	1098	1095	1086	1086	1091	686
45°	916	912	904	904	907	705
55°	705	704	696	690	690	630
65°	476	476	467	462	460	474
75°	246	241	237	233	232	259
85°	40	42	45	45	46	56
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1414.7	1414.7	1414.7	1414.7	1414.7
2.5°	1419.8	1416.8	1404.5	1414.7	1413.6
5°	1414.7	1412.1	1396.7	1408.2	1407.0
7.5°	1403.2	1400.4	1385.2	1396.7	1396.5
10°	1392.8	1389.1	1374.9	1386.4	1385.2
12.5°	1379.6	1375.7	1361.5	1373.1	1371.9
15°	1355.6	1353.2	1339.0	1349.2	1350.5
17.5°	1328.5	1323.8	1311.1	1321.1	1322.3
20°	1306.9	1303.2	1291.6	1300.5	1301.8
22.5°	1284.4	1280.6	1268.9	1278.0	1279.3
25°	1246.6	1245.4	1233.8	1240.3	1242.8
27.5°	1205.9	1202.3	1193.1	1198.0	1200.5
30°	1176.1	1173.6	1163.3	1167.2	1169.7
32.5°	1145.3	1143.9	1134.5	1136.4	1139.9
35°	1097.9	1095.4	1086.3	1086.4	1091.4
37.5°	1045.3	1042.5	1035.0	1033.8	1035.8
40°	1009.4	1005.6	999.1	997.8	997.8
42.5°	972.4	969.7	961.1	958.9	961.9
45°	915.8	912.0	904.3	904.3	906.8
47.5°	854.5	853.0	843.9	839.9	840.9
50°	809.3	811.9	802.9	797.9	802.9
52.5°	770.3	768.8	760.8	755.8	757.7
55°	705.4	704.2	696.4	690.0	690.0
57.5°	640.2	637.0	629.0	624.2	627.9
60°	595.2	593.9	584.8	576.0	579.7
62.5°	550.0	547.7	538.7	532.9	535.6
65°	475.8	475.8	466.8	461.7	460.4
67.5°	410.9	404.9	399.9	393.7	392.0
70°	361.6	356.6	352.7	347.5	343.7
72.5°	313.4	310.5	304.5	299.4	298.6
75°	246.2	241.2	237.3	233.4	232.1
77.5°	175.2	174.2	170.5	168.6	169.3
80°	132.1	132.1	129.5	129.5	128.2
82.5°	93.1	94.1	93.6	91.6	91.3
85°	39.8	42.3	44.9	44.9	46.2
87.5°	7.2	12.2	11.3	11.3	11.3
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)