

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: P519925

Luminaire Tested: **SQ4-F-050U-075D-935-1D-UNV-STD-W-6**

Issue Date: 4/29/2021

Test Information

Test Method: LM-79-2019
Report Number: P519925
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1910-536-21, 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-050U-075D-935-1D-UNV-STD-W-6
Description: CORELITE SQ4 SUSPENDED LED LUMINAIRE
DOWNLIGHT 750 LUMENS PER FOOT
UPLIGHT 500 LUMENS PER FOOT
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

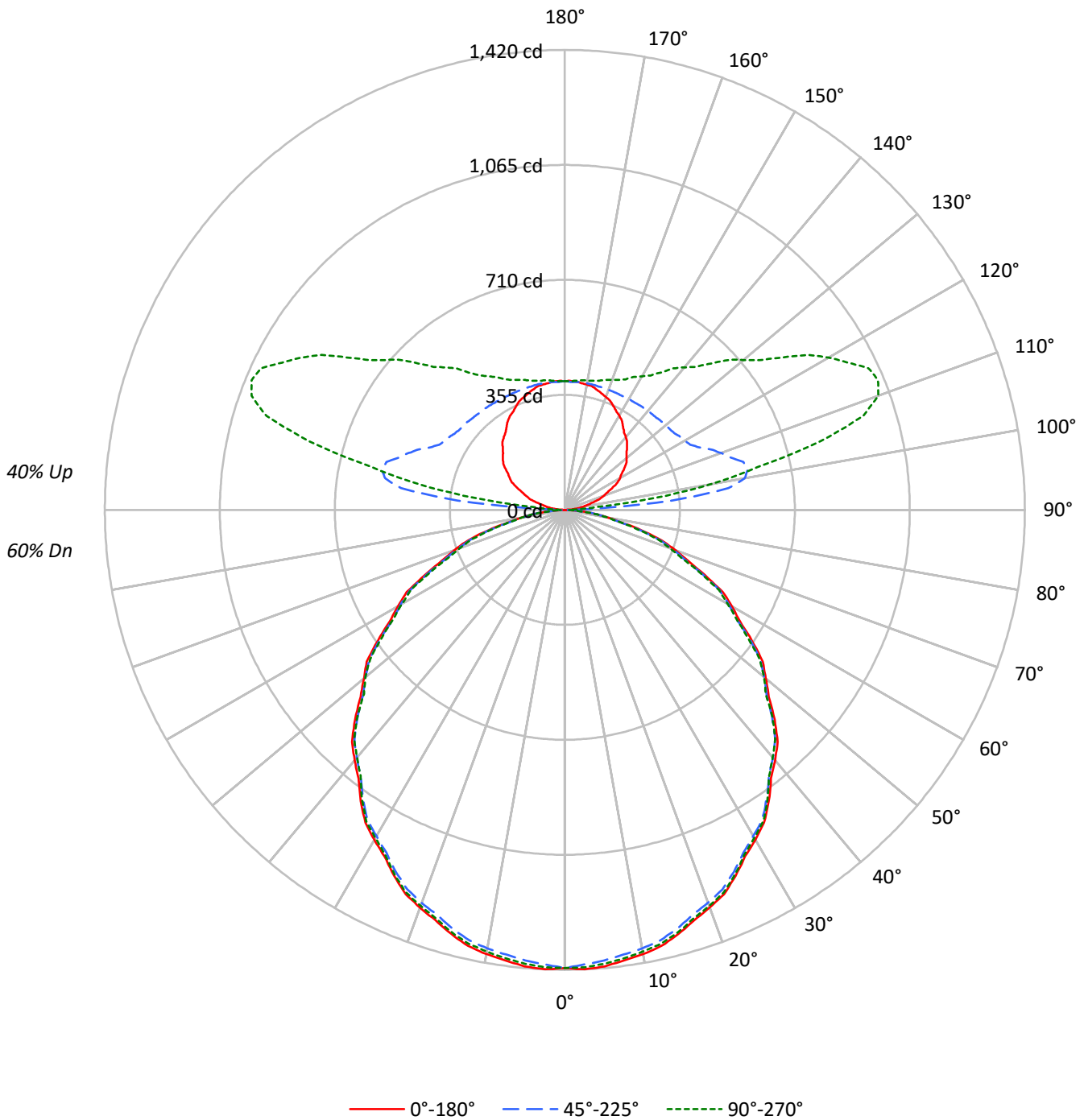
Lumens per Lamp: N/A
Luminaire Lumens: 6459.6 lumens
Efficiency: N/A
Efficacy: 114.7 lumens/watt
Spacing Criteria (0/90/45): 1.24 / 1.24 / 1.35
Luminous Opening: Rectangular (W 0.29' x L: 6' x H: 0')
CIE Type: General Diffuse

Input Watts (W): 56.3
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	109	109	109	109	102	102	102	102	89	89	89	76	76	76	65	65	65	60
1	100	96	92	88	93	89	86	83	78	75	73	67	65	64	58	56	55	50
2	91	83	77	72	85	78	73	68	68	64	60	59	56	53	51	48	46	42
3	83	73	66	60	77	69	62	57	60	55	51	52	48	45	45	42	39	35
4	76	65	57	50	71	61	54	48	53	48	43	46	42	38	40	36	34	30
5	70	58	49	43	65	54	47	41	48	42	37	42	37	33	36	32	29	26
6	64	52	43	37	60	49	41	36	43	37	32	38	33	29	32	29	26	23
7	59	47	39	33	55	44	37	31	39	33	28	34	29	26	30	26	23	20
8	55	42	35	29	51	40	33	28	35	30	25	31	26	23	27	23	20	18
9	51	39	31	26	48	37	30	25	33	27	23	29	24	21	25	21	18	16
10	48	36	28	23	45	34	27	22	30	24	20	27	22	19	23	19	17	15

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	2.1
10°-20°	380.1	5.9
20°-30°	571.1	8.8
30°-40°	681.5	10.5
40°-50°	698.9	10.8
50°-60°	622.8	9.6
60°-70°	464.3	7.2
70°-80°	251.8	3.9
80°-90°	59.4	0.9
90°-100°	190.9	3.0
100°-110°	518.5	8.0
110°-120°	533.1	8.3
120°-130°	426.2	6.6
130°-140°	334.9	5.2
140°-150°	256.8	4.0
150°-160°	184.7	2.9
160°-170°	112.9	1.7
170°-180°	38.1	0.6
0°-30°	1084.8	16.8
0°-40°	1766.3	27.3
0°-60°	3087.9	47.8
0°-90°	3863.5	59.8
90°-120°	1242.5	19.2
90°-150°	2260.4	35.0
90°-180°	2596.0	40.2
0°-180°	6459.6	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	55
90°	1	5	9	12	12	3
95°	28	104	332	145	97	30
105°	92	143	570	868	817	98
115°	164	199	456	908	1034	161
125°	225	256	413	696	821	201
135°	271	301	401	567	639	210
145°	313	336	396	482	518	197
155°	354	367	394	432	445	163
165°	384	389	395	412	413	108
175°	398	399	396	401	400	38
180°	398	398	398	398	398	

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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°	7.5	13.2	13.1	13.6	13.6
90°	1.3	5.0	8.9	11.5	11.5
92.5°	11.5	52.3	90.8	39.0	33.0
95°	28.2	104.4	332.5	144.6	97.1
97.5°	46.5	115.3	509.6	396.4	278.5
100°	58.8	122.6	563.8	571.5	461.5
102.5°	71.0	129.8	578.2	706.8	609.9
105°	92.0	143.3	570.2	868.2	816.9
107.5°	113.8	159.1	537.3	951.6	965.8
110°	129.1	170.4	512.7	967.9	1029.2

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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	142.4	181.6	488.1	954.3	1046.5
115°	163.7	198.6	456.4	908.1	1034.3
117.5°	183.6	217.1	436.2	842.4	984.7
120°	196.8	229.4	427.1	798.5	939.7
122.5°	208.1	240.6	420.9	754.3	890.6
125°	225.0	256.3	412.9	695.8	820.8
127.5°	240.1	271.1	408.6	651.4	758.6
130°	249.3	279.3	406.5	623.5	719.8
132.5°	258.5	288.5	404.5	599.8	685.0
135°	271.0	301.1	401.4	566.8	639.2
137.5°	284.6	311.9	399.9	537.5	598.6
140°	292.8	319.0	398.9	519.0	574.1
142.5°	301.0	325.2	397.9	504.5	550.5
145°	313.2	335.7	396.3	481.5	517.8
147.5°	327.1	346.3	395.1	463.5	492.0
150°	336.3	352.5	395.1	453.1	475.6
152.5°	343.5	357.7	394.1	443.8	462.3
155°	354.1	366.6	393.8	432.5	444.9
157.5°	364.6	374.4	393.8	424.7	434.2
160°	370.7	379.6	393.8	419.5	427.1
162.5°	376.9	383.7	394.8	415.4	420.9
165°	383.6	388.6	395.1	411.7	412.9
167.5°	390.5	393.0	396.3	407.3	408.3
170°	392.5	395.0	396.3	405.3	405.3
172.5°	394.6	396.0	396.3	403.2	403.2
175°	397.6	398.9	396.3	401.4	400.2
177.5°	398.6	398.6	395.6	399.6	397.6
180°	397.6	397.6	397.6	397.6	397.6

(END OF REPORT)