

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: P563654

Luminaire Tested: **SQ4-PP3-100U-125D-940-1D-UNV-STD-W-4**

Issue Date: 7/30/2021

Test Information

Test Method: LM-79-2019
Report Number: P563654
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1910-536-23, 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-PP3-100U-125D-940-1D-UNV-STD-W-4
Description: CORELITE SQ4 SUSPENDED LED LUMINAIRE WITH PERCEIVE PRISM CONTINUOUS LENS.
DOWNLIGHT 1250 LUMENS PER FOOT
UPLIGHT 1000 LUMENS PER FOOT
Light Source: 4000K CCT, 90 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

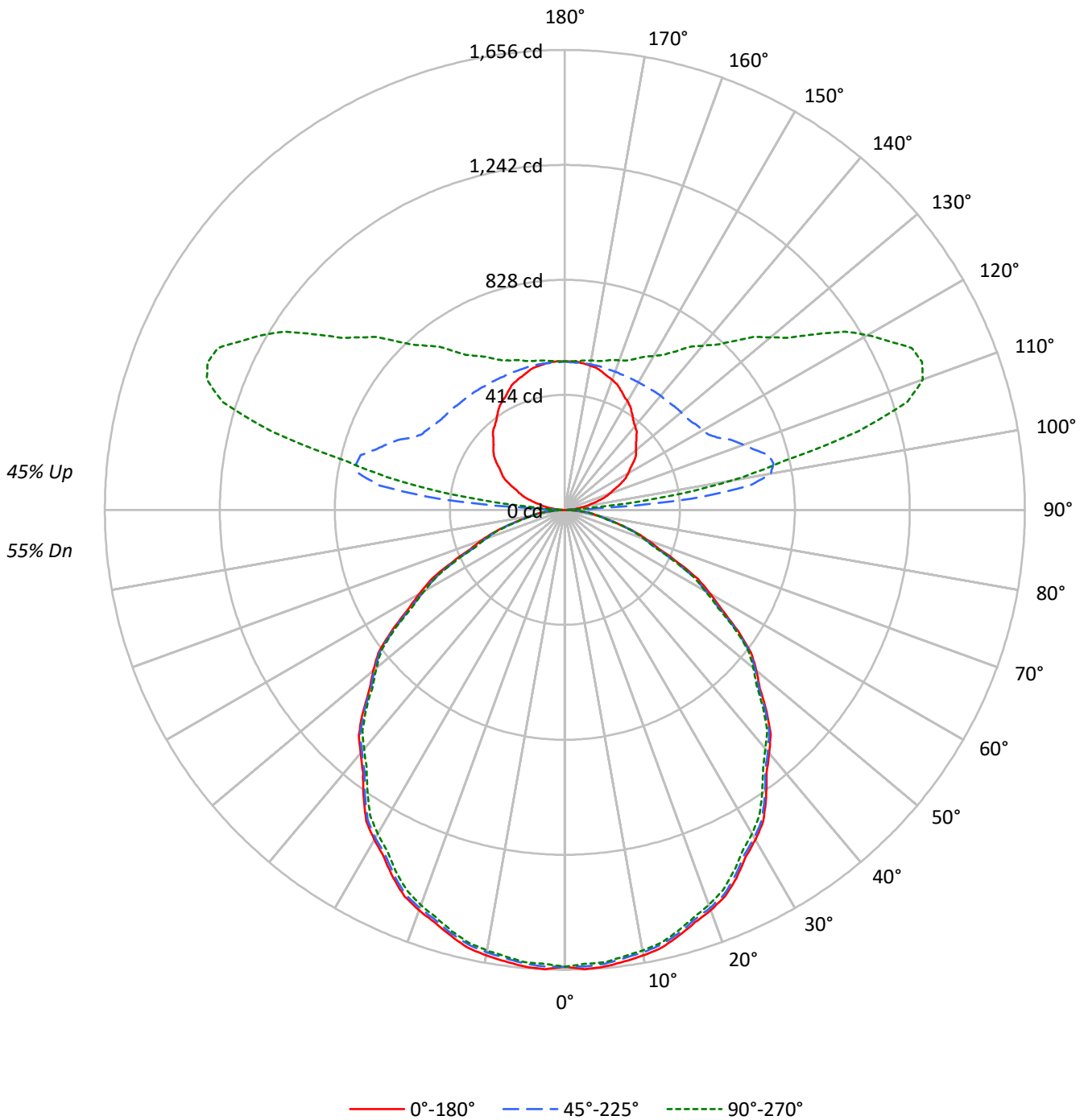
Lumens per Lamp: N/A
Luminaire Lumens: 7684.6 lumens
Efficiency: N/A
Efficacy: 111.9 lumens/watt
Spacing Criteria (0/90/45): 1.24 / 1.22 / 1.33
Luminous Opening: Rectangular (W 0.29' x L: 4' x H: 0')
CIE Type: General Diffuse

Input Watts (W): 68.7
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	108	108	108	108	101	101	101	101	86	86	86	73	73	73	61	61	61	55
1	99	95	91	88	92	88	85	82	76	73	71	64	63	61	54	53	52	47
2	90	83	77	72	84	77	72	68	67	63	59	57	54	51	48	46	44	39
3	83	73	66	60	76	68	62	57	59	54	50	50	47	44	42	40	37	34
4	76	65	57	51	70	61	54	48	52	47	43	45	41	37	38	35	32	29
5	69	58	50	44	64	54	47	41	47	41	37	40	36	33	34	31	28	25
6	64	52	44	38	59	49	41	36	42	37	32	37	32	29	31	28	25	22
7	59	47	39	33	55	44	37	32	38	33	28	33	29	25	28	25	22	20
8	55	43	35	29	51	40	33	28	35	29	25	30	26	23	26	22	20	18
9	51	39	31	26	48	37	30	25	32	27	23	28	23	20	24	21	18	16
10	48	36	28	24	44	34	27	23	30	24	20	26	21	18	22	19	16	14

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	15181	15181	15181
5°	15292	15199	15146
10°	15267	15158	15091
15°	15166	15083	15001
20°	15065	14981	14867
25°	14886	14783	14637
30°	14610	14534	14349
35°	14229	14131	13953
40°	13773	13687	13530
45°	13398	13304	13172
50°	12917	12833	12710
55°	12247	12085	11993
60°	11149	10830	10778
65°	9822	9414	9381
70°	8481	8130	8130
75°	7301	7197	7094
80°	6434	6514	6360
85°	5039	5494	5494



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	155.6	2.0
10°-20°	444.3	5.8
20°-30°	665.5	8.7
30°-40°	780.5	10.2
40°-50°	783.0	10.2
50°-60°	668.0	8.7
60°-70°	435.6	5.7
70°-80°	218.6	2.8
80°-90°	61.6	0.8
90°-100°	250.2	3.3
100°-110°	690.9	9.0
110°-120°	712.5	9.3
120°-130°	572.6	7.5
130°-140°	450.0	5.9
140°-150°	345.1	4.5
150°-160°	248.0	3.2
160°-170°	151.7	2.0
170°-180°	51.1	0.7
0°-30°	1265.3	16.5
0°-40°	2045.9	26.6
0°-60°	3496.8	45.5
0°-90°	4212.5	54.8
90°-120°	1653.6	21.5
90°-150°	3021.2	39.3
90°-180°	3472.0	45.2
0°-180°	7684.6	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1645	1645	1645	1645	1645	
5°	1651	1636	1641	1635	1635	157
15°	1588	1572	1579	1573	1570	448
25°	1462	1445	1452	1439	1438	672
35°	1263	1251	1255	1240	1239	789
45°	1027	1020	1020	1010	1010	791
55°	761	759	751	747	746	677
65°	450	442	431	428	430	449
75°	205	205	202	200	199	222
85°	48	52	52	52	52	56
90°	2	3	7	8	8	4
95°	37	135	454	187	121	39
105°	123	190	760	1160	1093	131
115°	221	267	612	1212	1378	217
125°	303	344	555	939	1102	269
135°	364	404	540	761	858	282
145°	422	452	533	648	697	264
155°	476	492	528	581	599	219
165°	516	522	531	552	556	145
175°	534	535	532	540	538	51
180°	534	534	534	534	534	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1645.4	1645.4	1645.4	1645.4	1645.4
2.5°	1655.8	1642.3	1645.4	1643.0	1636.2
5°	1651.2	1635.7	1641.1	1635.4	1635.4
7.5°	1640.0	1623.0	1628.4	1622.7	1622.4
10°	1629.6	1612.7	1618.0	1612.2	1610.8
12.5°	1614.6	1597.7	1604.2	1597.3	1597.0
15°	1587.8	1572.3	1579.1	1573.3	1570.5
17.5°	1557.5	1540.6	1548.8	1540.7	1539.6
20°	1534.4	1517.5	1525.8	1514.2	1514.2
22.5°	1506.7	1489.8	1499.2	1484.2	1484.2
25°	1462.3	1445.4	1452.2	1439.2	1437.8
27.5°	1409.5	1392.9	1400.0	1385.3	1385.0
30°	1371.4	1355.9	1364.2	1348.3	1346.9
32.5°	1329.9	1315.5	1321.6	1305.7	1304.2
35°	1263.3	1250.6	1254.6	1240.2	1238.8
37.5°	1193.2	1180.2	1184.8	1172.4	1171.9
40°	1143.6	1135.1	1136.4	1126.2	1123.4
42.5°	1097.4	1087.9	1089.1	1079.0	1078.4
45°	1026.8	1019.7	1019.6	1009.5	1009.5
47.5°	951.8	946.4	944.9	936.5	936.2
50°	899.9	895.6	894.1	886.9	885.5
52.5°	845.7	843.7	838.7	832.7	832.4
55°	761.4	758.6	751.3	747.0	745.6
57.5°	670.0	664.4	656.2	649.8	651.0
60°	604.2	598.6	586.9	584.1	584.1
62.5°	540.8	534.0	522.3	518.3	520.6
65°	449.9	441.5	431.2	428.3	429.7
67.5°	367.5	359.8	348.7	348.7	347.5
70°	314.4	310.2	301.4	301.4	301.4
72.5°	267.1	265.1	258.7	258.7	257.6
75°	204.8	204.8	201.9	200.4	199.0
77.5°	153.4	154.0	152.6	151.1	148.5
80°	121.1	124.0	122.6	121.1	119.7
82.5°	91.1	94.0	93.7	91.1	90.9
85°	47.6	51.8	51.9	51.9	51.9
87.5°	13.0	17.9	19.8	20.0	21.3
90°	1.7	3.4	6.8	7.7	8.5
92.5°	15.4	63.9	114.2	41.7	32.5
95°	36.8	135.4	454.0	186.6	121.4
97.5°	60.9	151.7	672.5	517.8	375.0
100°	78.7	161.4	753.2	758.6	616.4
102.5°	95.8	172.5	769.0	937.3	802.5
105°	123.1	190.0	760.1	1160.4	1092.7
107.5°	152.2	211.7	717.7	1268.0	1292.7
110°	172.7	226.2	684.8	1291.1	1371.4



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	191.2	242.7	654.1	1272.9	1391.2
115°	220.6	266.6	612.2	1211.9	1378.2
117.5°	246.2	292.0	584.6	1126.0	1315.3
120°	263.3	308.5	573.7	1067.9	1258.5
122.5°	279.8	322.9	564.8	1013.7	1194.2
125°	302.7	344.5	554.9	939.1	1102.1
127.5°	322.2	364.0	549.1	876.0	1016.6
130°	335.2	377.0	546.3	837.4	965.3
132.5°	347.5	387.3	543.6	805.0	920.8
135°	364.2	403.5	539.5	760.6	857.6
137.5°	383.0	418.8	537.4	723.3	806.1
140°	393.3	428.4	536.1	698.5	771.2
142.5°	404.9	437.4	534.7	676.4	740.4
145°	422.4	451.6	532.7	647.5	696.8
147.5°	439.1	464.7	530.8	623.1	661.4
150°	451.4	472.3	530.1	608.6	639.5
152.5°	461.0	480.6	529.4	596.2	621.7
155°	476.2	492.1	528.4	581.0	599.3
157.5°	490.2	502.5	528.6	569.9	582.4
160°	498.5	509.3	529.2	563.6	572.8
162.5°	505.3	514.8	529.9	558.1	565.3
165°	515.6	522.2	530.9	551.6	555.7
167.5°	523.4	527.4	531.8	547.6	548.9
170°	527.5	530.9	531.8	545.5	545.5
172.5°	530.9	533.0	531.8	542.7	542.1
175°	534.4	535.2	531.8	539.5	537.8
177.5°	535.7	535.1	531.6	536.4	535.0
180°	534.4	534.4	534.4	534.4	534.4

(END OF REPORT)