

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: P563650

Luminaire Tested: **SQ4-PP3-100U-125D-935-1D-UNV-STD-W-4**

Issue Date: 7/30/2021

Test Information

Test Method: LM-79-2019
Report Number: P563650
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-935-1D-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: 3500K CCT, 90 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

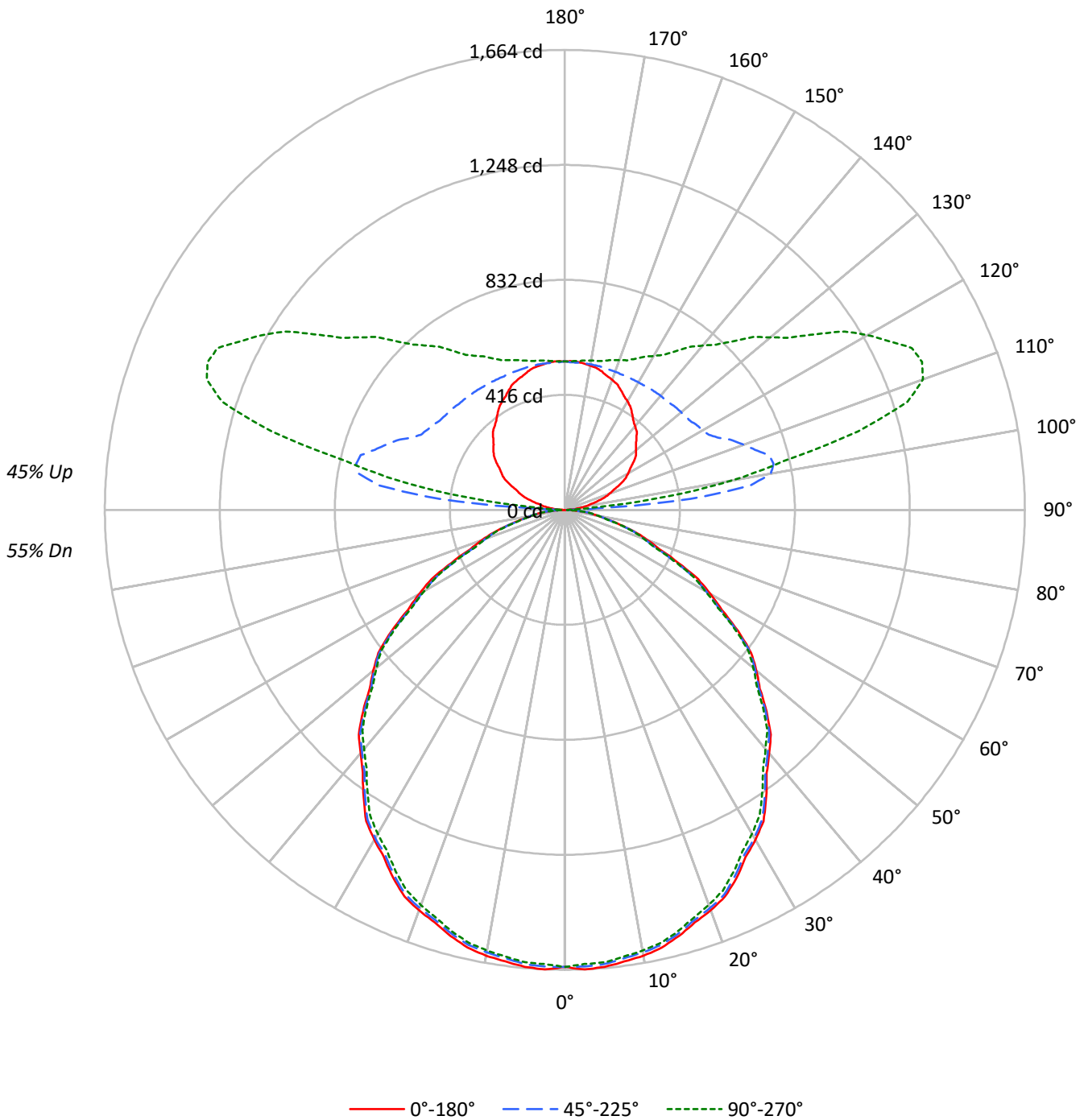
Lumens per Lamp: N/A
Luminaire Lumens: 7723.8 lumens
Efficiency: N/A
Efficacy: 112.4 lumens/watt
Spacing Criteria (0/90/45): 1.24 / 1.22 / 1.33
Luminous Opening: Rectangular (W 0.29' x L: 4' x H: 0')
CIE Type: General Diffuse

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°	15258	15258	15258
5°	15370	15277	15223
10°	15345	15236	15169
15°	15244	15160	15077
20°	15142	15056	14943
25°	14963	14859	14711
30°	14685	14608	14423
35°	14301	14203	14024
40°	13843	13757	13599
45°	13465	13371	13238
50°	12983	12899	12775
55°	12310	12148	12054
60°	11206	10885	10832
65°	9872	9462	9429
70°	8524	8171	8171
75°	7336	7233	7129
80°	6471	6546	6392
85°	5060	5526	5526



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	156.4	2.0
10°-20°	446.5	5.8
20°-30°	668.8	8.7
30°-40°	784.5	10.2
40°-50°	787.0	10.2
50°-60°	671.4	8.7
60°-70°	437.8	5.7
70°-80°	219.7	2.8
80°-90°	61.9	0.8
90°-100°	251.5	3.3
100°-110°	694.4	9.0
110°-120°	716.1	9.3
120°-130°	575.5	7.5
130°-140°	452.3	5.9
140°-150°	346.9	4.5
150°-160°	249.3	3.2
160°-170°	152.5	2.0
170°-180°	51.4	0.7
0°-30°	1271.8	16.5
0°-40°	2056.3	26.6
0°-60°	3514.6	45.5
0°-90°	4234.0	54.8
90°-120°	1662.0	21.5
90°-150°	3036.6	39.3
90°-180°	3490.0	45.2
0°-180°	7723.8	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1654	1654	1654	1654	1654	
5°	1660	1644	1650	1644	1644	158
15°	1596	1580	1587	1581	1578	450
25°	1470	1453	1460	1446	1445	676
35°	1270	1257	1261	1246	1245	793
45°	1032	1025	1025	1015	1015	795
55°	765	762	755	751	749	680
65°	452	444	433	430	432	451
75°	206	206	203	201	200	223
85°	48	52	52	52	52	56
90°	2	3	7	8	9	4
95°	37	136	456	188	122	40
105°	124	191	764	1166	1098	132
115°	222	268	615	1218	1385	218
125°	304	346	558	944	1108	271
135°	366	406	542	764	862	283
145°	424	454	535	651	700	266
155°	479	495	531	584	602	221
165°	518	525	534	554	559	146
175°	537	538	534	542	540	51
180°	537	537	537	537	537	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1653.8	1653.8	1653.8	1653.8	1653.8
2.5°	1664.3	1650.7	1653.8	1651.4	1644.6
5°	1659.6	1644.1	1649.5	1643.7	1643.7
7.5°	1648.3	1631.3	1636.7	1630.9	1630.7
10°	1637.9	1620.9	1626.3	1620.5	1619.1
12.5°	1622.8	1605.8	1612.4	1605.4	1605.1
15°	1595.9	1580.3	1587.2	1581.3	1578.5
17.5°	1565.4	1548.4	1556.7	1548.6	1547.5
20°	1542.2	1525.2	1533.5	1521.9	1521.9
22.5°	1514.4	1497.4	1506.9	1491.8	1491.8
25°	1469.8	1452.8	1459.6	1446.5	1445.1
27.5°	1416.7	1400.0	1407.1	1392.4	1392.1
30°	1378.4	1362.9	1371.2	1355.2	1353.8
32.5°	1336.7	1322.2	1328.3	1312.3	1310.9
35°	1269.7	1257.0	1261.0	1246.5	1245.1
37.5°	1199.3	1186.3	1190.9	1178.4	1177.8
40°	1149.4	1140.9	1142.2	1132.0	1129.1
42.5°	1103.0	1093.4	1094.6	1084.5	1083.9
45°	1032.0	1024.9	1024.8	1014.6	1014.6
47.5°	956.7	951.3	949.7	941.3	941.0
50°	904.5	900.2	898.7	891.4	890.0
52.5°	850.0	848.0	843.0	836.9	836.6
55°	765.3	762.5	755.2	750.8	749.4
57.5°	673.4	667.8	659.5	653.2	654.3
60°	607.3	601.7	589.9	587.0	587.0
62.5°	543.6	536.7	525.0	521.0	523.3
65°	452.2	443.7	433.4	430.5	431.9
67.5°	369.3	361.7	350.5	350.5	349.3
70°	316.0	311.7	302.9	302.9	302.9
72.5°	268.4	266.5	260.0	260.0	258.9
75°	205.8	205.8	202.9	201.4	200.0
77.5°	154.2	154.8	153.4	151.8	149.3
80°	121.8	124.6	123.2	121.7	120.3
82.5°	91.6	94.4	94.2	91.6	91.3
85°	47.8	52.1	52.2	52.2	52.2
87.5°	13.1	18.0	19.9	20.1	21.4
90°	1.7	3.4	6.9	7.8	8.6
92.5°	15.5	64.2	114.8	41.9	32.7
95°	37.0	136.1	456.3	187.6	122.0
97.5°	61.2	152.4	676.0	520.4	376.9
100°	79.1	162.2	757.1	762.4	619.6
102.5°	96.2	173.4	772.9	942.0	806.6
105°	123.7	191.0	764.0	1166.3	1098.2
107.5°	153.0	212.8	721.3	1274.5	1299.3
110°	173.6	227.4	688.3	1297.7	1378.4



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	192.2	243.9	657.4	1279.4	1398.3
115°	221.7	267.9	615.3	1218.1	1385.3
117.5°	247.5	293.5	587.6	1131.8	1322.0
120°	264.7	310.1	576.6	1073.4	1265.0
122.5°	281.2	324.5	567.7	1018.8	1200.3
125°	304.2	346.2	557.7	943.9	1107.7
127.5°	323.8	365.8	551.9	880.4	1021.8
130°	336.9	378.9	549.1	841.6	970.2
132.5°	349.2	389.2	546.4	809.1	925.5
135°	366.1	405.6	542.2	764.5	861.9
137.5°	385.0	421.0	540.2	727.0	810.2
140°	395.3	430.6	538.8	702.0	775.1
142.5°	407.0	439.6	537.4	679.8	744.2
145°	424.5	453.9	535.4	650.8	700.4
147.5°	441.4	467.1	533.5	626.3	664.8
150°	453.7	474.7	532.8	611.7	642.8
152.5°	463.4	483.0	532.1	599.2	624.9
155°	478.7	494.6	531.1	583.9	602.4
157.5°	492.8	505.0	531.2	572.8	585.4
160°	501.0	511.9	531.9	566.5	575.8
162.5°	507.9	517.5	532.6	561.0	568.2
165°	518.2	524.9	533.7	554.4	558.6
167.5°	526.1	530.1	534.5	550.4	551.7
170°	530.2	533.6	534.5	548.3	548.3
172.5°	533.7	535.7	534.5	545.5	544.8
175°	537.1	537.9	534.5	542.2	540.5
177.5°	538.5	537.8	534.3	539.1	537.8
180°	537.1	537.1	537.1	537.1	537.1

(END OF REPORT)