

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: P562005

Luminaire Tested: **SQ4-PR1-100U-075D-92765-1D-UNV-STD-W-4 (6500K)**

Issue Date: 7/30/2021

Test Information

Test Method: LM-79-2019
Report Number: P562005
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2101-105-51, G2-2106-289-4)
Test Lab: INNOVATION CENTER
Issue Date: 7/30/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: CORELITE
Catalog Number: SQ4-PR1-100U-075D-92765-1D-UNV-STD-W-4 (6500K)
Description: CORELITE SQ4 SUSPENDED LED LUMINAIRE WITH PERCEIVE RIPPLE CONTINUOUS LENS
DOWNLIGHT 750 LUMENS PER FOOT
UPLIGHT 1000 LUMENS PER FOOT
Light Source: 2700K/65000K CCT, 90 CRI LEDS, TUNED TO 6500K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

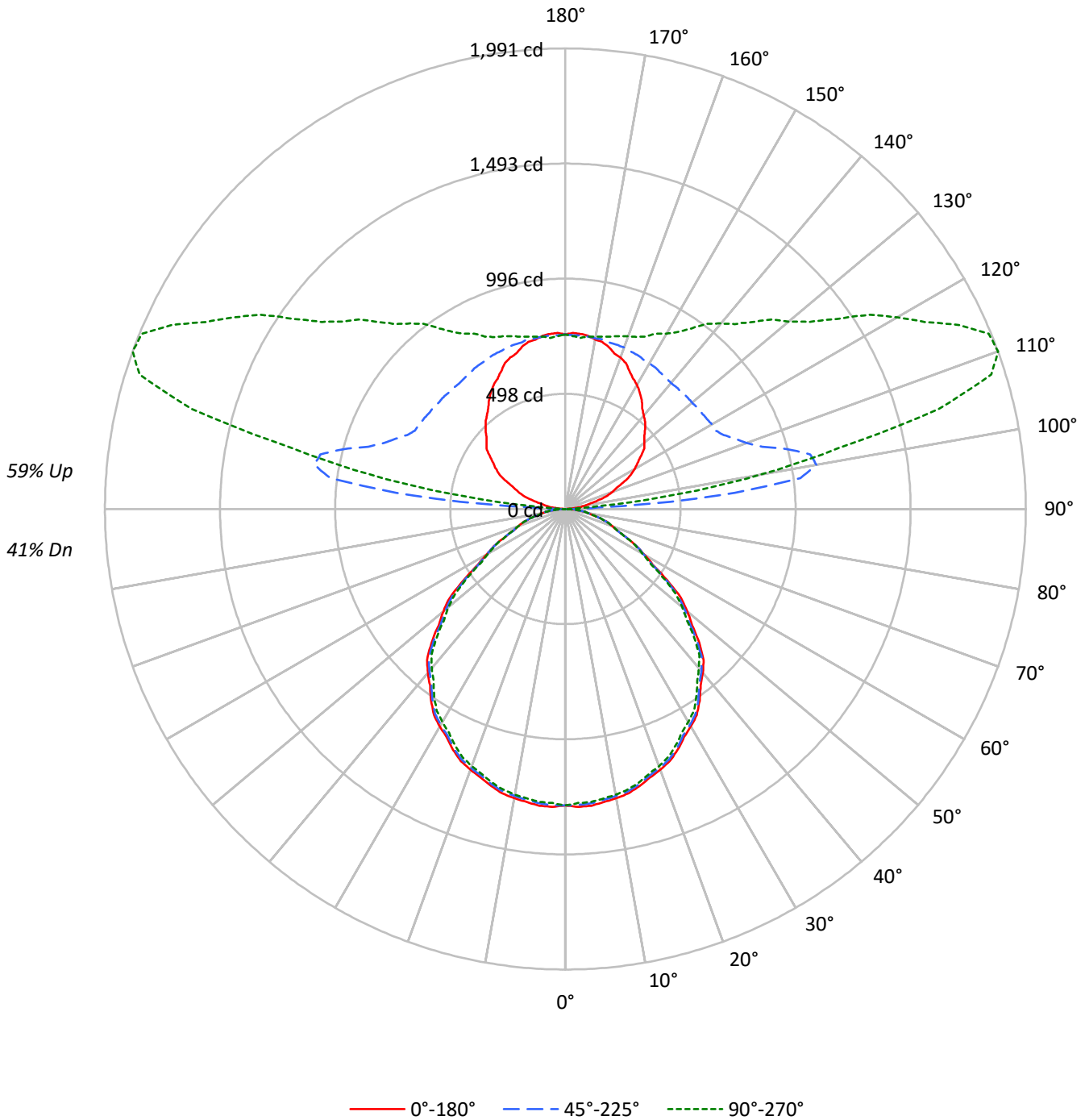
Lumens per Lamp: N/A
Luminaire Lumens: 7886.5 lumens
Efficiency: N/A
Efficacy: 123.4 lumens/watt
Spacing Criteria (0/90/45): 1.26 / 1.24 / 1.35
Luminous Opening: Rectangular (W 0.29' x L: 4' x H: 0')
CIE Type: General Diffuse

Input Watts (W): 63.9
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	105	105	105	105	96	96	96	96	78	78	78	62	62	62	48	48	48	41
1	96	92	88	85	87	84	81	78	69	67	65	55	54	52	42	41	41	35
2	88	80	74	69	80	73	68	64	61	57	54	49	46	44	38	36	35	29
3	80	71	64	58	73	65	59	54	54	49	45	43	40	37	33	31	30	25
4	73	63	55	49	66	58	51	46	48	43	39	39	35	32	30	28	26	22
5	67	56	48	42	61	51	44	39	43	38	34	35	31	28	27	25	22	19
6	62	50	42	37	56	46	39	34	38	33	29	31	27	24	25	22	20	17
7	57	45	37	32	52	42	35	30	35	30	26	28	25	22	22	20	18	15
8	53	41	33	28	48	38	31	26	32	27	23	26	22	19	21	18	16	13
9	49	37	30	25	45	35	28	24	29	24	20	24	20	17	19	16	14	12
10	46	34	27	22	42	32	25	21	27	22	18	22	18	16	18	15	13	11

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	11821	11821	11821
5°	11927	11835	11774
10°	11890	11806	11744
15°	11837	11764	11700
20°	11778	11701	11615
25°	11695	11616	11481
30°	11569	11487	11321
35°	11398	11298	11137
40°	11138	11018	10819
45°	10684	10497	10280
50°	9884	9647	9456
55°	8627	8432	8253
60°	7270	7209	7065
65°	6287	6311	6263
70°	5775	5805	5805
75°	5547	5547	5586
80°	5218	5276	5218
85°	4203	4668	4668



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	121.2	1.5
10°-20°	346.6	4.4
20°-30°	522.9	6.6
30°-40°	623.0	7.9
40°-50°	614.2	7.8
50°-60°	469.4	6.0
60°-70°	290.5	3.7
70°-80°	165.0	2.1
80°-90°	50.2	0.6
90°-100°	343.6	4.4
100°-110°	977.6	12.4
110°-120°	936.6	11.9
120°-130°	741.3	9.4
130°-140°	595.0	7.5
140°-150°	465.8	5.9
150°-160°	340.8	4.3
160°-170°	211.1	2.7
170°-180°	71.6	0.9
0°-30°	990.7	12.6
0°-40°	1613.6	20.5
0°-60°	2697.3	34.2
0°-90°	3202.9	40.6
90°-120°	2257.8	28.6
90°-150°	4059.9	51.5
90°-180°	4684.0	59.4
0°-180°	7886.5	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1281	1281	1281	1281	1281	
5°	1288	1274	1278	1273	1271	122
15°	1239	1226	1232	1227	1225	350
25°	1149	1135	1141	1129	1128	529
35°	1012	1000	1003	990	989	632
45°	819	808	804	790	788	627
55°	536	528	524	515	513	481
65°	288	286	289	287	287	292
75°	156	156	156	157	157	164
85°	40	42	44	44	44	46
90°	0	0	0	0	0	3
95°	37	148	665	230	142	43
105°	152	230	996	1760	1673	161
115°	282	341	755	1600	1879	278
125°	398	442	721	1196	1431	357
135°	487	528	712	1011	1142	376
145°	575	604	718	875	953	359
155°	656	672	735	791	823	303
165°	725	728	744	760	771	204
175°	760	756	753	748	742	72
180°	754	754	754	754	754	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1281.2	1281.2	1281.2	1281.2	1281.2
2.5°	1289.2	1277.9	1281.2	1278.4	1272.4
5°	1287.8	1273.8	1277.9	1273.4	1271.3
7.5°	1277.9	1264.1	1268.2	1263.8	1262.5
10°	1269.1	1256.1	1260.2	1255.8	1253.6
12.5°	1259.4	1245.6	1250.5	1245.2	1243.0
15°	1239.3	1226.3	1231.6	1227.1	1224.9
17.5°	1217.2	1203.4	1208.6	1203.5	1200.7
20°	1199.6	1186.6	1191.8	1184.1	1183.0
22.5°	1180.1	1167.2	1172.4	1162.0	1161.8
25°	1148.8	1134.8	1141.1	1128.9	1127.8
27.5°	1111.5	1098.5	1103.8	1091.4	1090.1
30°	1085.9	1072.9	1078.2	1064.9	1062.7
32.5°	1056.8	1044.7	1049.0	1035.8	1034.5
35°	1012.0	1000.1	1003.1	989.9	988.8
37.5°	961.0	950.2	951.9	937.3	936.2
40°	924.8	914.0	914.8	899.4	898.3
42.5°	885.0	874.3	873.3	857.9	856.8
45°	818.8	808.0	804.5	790.1	787.9
47.5°	743.3	732.6	725.9	714.2	712.7
50°	688.6	677.8	672.1	662.1	658.8
52.5°	629.5	618.7	613.8	604.7	601.4
55°	536.3	527.7	524.2	515.3	513.1
57.5°	447.8	442.0	441.0	432.3	431.5
60°	394.0	390.7	390.7	382.9	382.9
62.5°	348.1	345.7	347.4	342.3	341.4
65°	288.0	285.9	289.1	286.9	286.9
67.5°	240.6	240.6	242.6	241.7	241.7
70°	214.1	214.1	215.2	215.2	215.2
72.5°	190.3	189.4	192.2	192.2	191.4
75°	155.6	155.6	155.6	156.7	156.7
77.5°	121.2	121.4	122.3	122.0	121.2
80°	98.2	99.3	99.3	98.2	98.2
82.5°	75.3	76.3	76.4	76.1	75.3
85°	39.7	41.9	44.1	44.1	44.1
87.5°	11.5	14.9	17.7	17.6	16.8
90°	0.0	0.0	0.0	0.0	0.0
92.5°	11.5	60.8	141.1	41.1	31.0
95°	37.3	148.0	665.1	230.2	141.9
97.5°	68.5	173.4	1024.3	733.0	502.3
100°	90.3	188.4	1102.3	1116.6	860.1
102.5°	114.4	204.7	1085.1	1429.2	1205.2
105°	151.9	230.4	996.2	1759.7	1672.8
107.5°	190.1	260.4	892.5	1852.9	1930.3
110°	216.4	282.3	832.8	1817.3	1991.1

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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	241.7	304.2	792.7	1732.9	1980.7
115°	282.4	341.3	755.4	1600.3	1879.2
117.5°	318.2	373.4	733.3	1455.4	1750.8
120°	346.9	393.1	731.1	1372.5	1655.6
122.5°	369.8	416.1	725.3	1299.8	1562.7
125°	398.5	441.9	721.0	1196.5	1430.6
127.5°	429.7	470.4	718.7	1134.8	1327.7
130°	445.8	486.4	715.3	1091.8	1260.0
132.5°	463.0	502.5	715.3	1058.2	1213.0
135°	487.4	528.0	712.4	1010.7	1142.5
137.5°	510.3	549.8	712.1	970.4	1084.3
140°	527.5	568.2	711.0	937.1	1046.4
142.5°	547.0	580.9	714.4	910.5	1008.6
145°	574.8	604.2	718.2	874.7	953.2
147.5°	598.6	627.2	724.5	838.7	906.5
150°	619.2	638.9	726.8	826.7	874.4
152.5°	635.3	656.0	729.0	810.6	854.9
155°	656.5	671.9	735.4	790.6	822.8
157.5°	682.9	692.1	736.8	781.5	804.4
160°	696.7	703.7	742.5	774.5	794.1
162.5°	704.7	712.8	743.7	768.7	783.8
165°	725.3	728.1	744.0	760.0	771.2
167.5°	739.4	736.8	750.6	757.8	762.3
170°	744.0	742.6	748.3	749.8	755.4
172.5°	754.3	749.5	751.7	747.5	752.0
175°	759.7	755.5	752.6	748.1	742.5
177.5°	762.0	755.3	751.7	747.1	748.3
180°	754.0	754.0	754.0	754.0	754.0

(END OF REPORT)