

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: P562369

Luminaire Tested: **SQ4-PW1-100U-075D-92765-1D-UNV-STD-W-4 (6500K)**

Issue Date: 7/30/2021

Test Information

Test Method: LM-79-2019
Report Number: P562369
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2101-105-51, G2-2106-289-3)
Test Lab: INNOVATION CENTER
Issue Date: 7/30/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: CORELITE
Catalog Number: SQ4-PW1-100U-075D-92765-1D-UNV-STD-W-4 (6500K)
Description: CORELITE SQ4 SUSPENDED LED LUMINAIRE WITH PERCEIVE WAVES 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

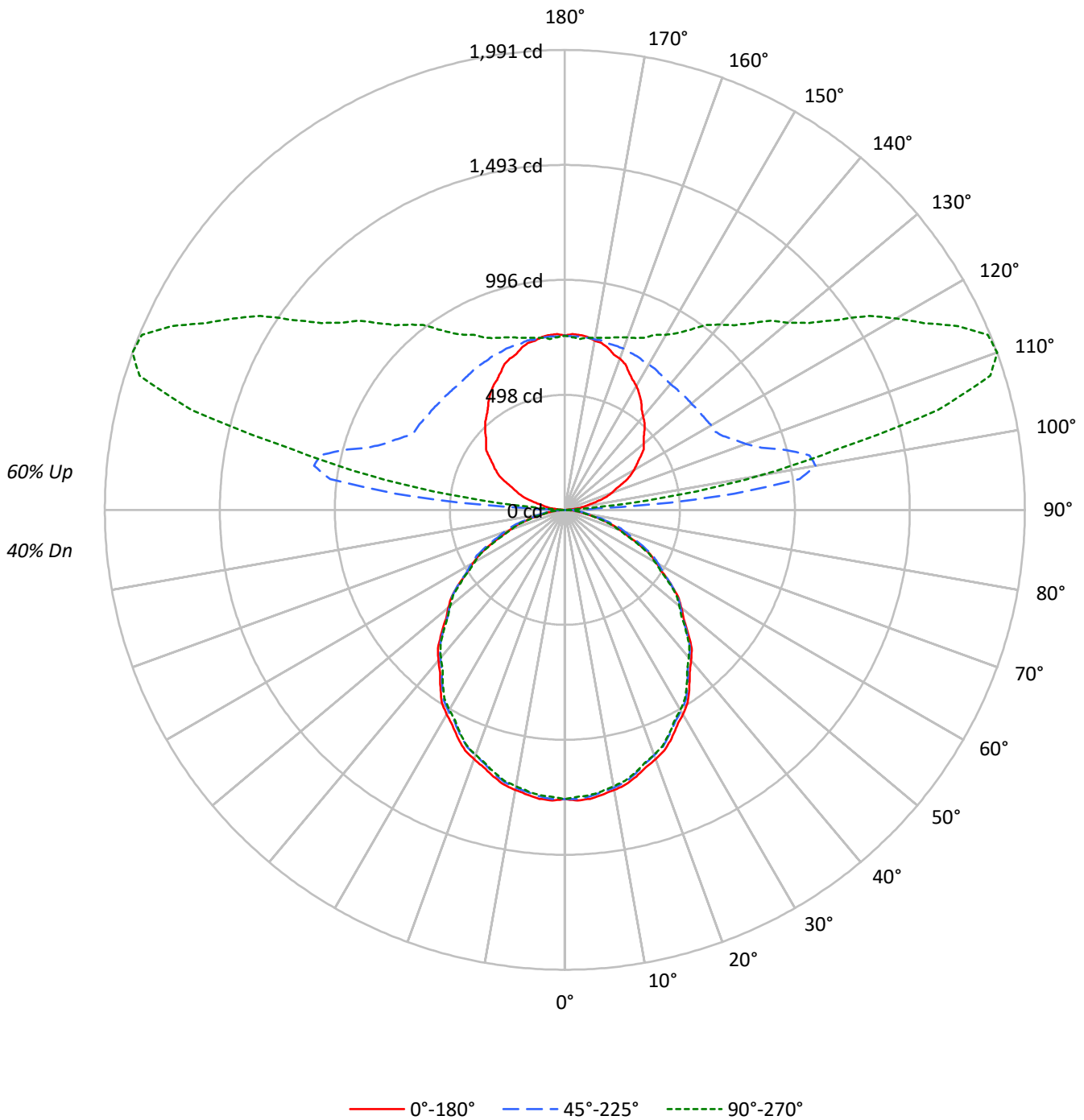
Lumens per Lamp: N/A
Luminaire Lumens: 7870.3 lumens
Efficiency: N/A
Efficacy: 123.2 lumens/watt
Spacing Criteria (0/90/45): 1.22 / 1.19 / 1.31
Luminous Opening: Rectangular (W 0.29' x L: 4' x H: 0')
CIE Type: General Diffuse

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	47	47	47	40
1	96	92	88	84	87	84	80	77	69	66	64	55	53	52	42	41	40	34
2	87	80	74	69	79	73	68	64	60	56	53	48	46	43	37	35	34	29
3	80	70	63	57	72	64	58	53	53	48	45	43	39	37	33	31	29	24
4	73	62	54	49	66	57	50	45	47	42	38	38	34	31	29	27	25	21
5	67	55	47	42	61	51	44	39	42	37	33	34	30	27	26	24	22	18
6	61	50	42	36	56	46	39	33	38	33	29	31	27	24	24	21	19	16
7	57	45	37	31	52	41	34	29	34	29	25	28	24	21	22	19	17	14
8	53	41	33	28	48	37	31	26	31	26	22	25	22	19	20	17	15	13
9	49	37	30	25	45	34	28	23	29	23	20	23	20	17	19	16	14	11
10	46	34	27	22	42	31	25	21	26	21	18	22	18	15	17	14	12	10

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	11556	11556	11556
5°	11631	11539	11488
10°	11538	11445	11383
15°	11415	11289	11247
20°	11279	11106	11084
25°	11122	10919	10885
30°	10887	10722	10651
35°	10577	10429	10367
40°	10247	10088	10048
45°	9848	9719	9676
50°	9440	9361	9298
55°	9000	9000	8858
60°	8451	8614	8307
65°	7733	8119	7540
70°	6817	7472	6639
75°	5821	6687	5664
80°	4516	5627	4575
85°	2922	4319	3853



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	117.9	1.5
10°-20°	333.0	4.2
20°-30°	493.9	6.3
30°-40°	578.0	7.3
40°-50°	575.4	7.3
50°-60°	496.9	6.3
60°-70°	357.6	4.5
70°-80°	187.5	2.4
80°-90°	46.5	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	7.6
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°	944.9	12.0
0°-40°	1522.8	19.3
0°-60°	2595.1	33.0
0°-90°	3186.8	40.5
90°-120°	2257.8	28.7
90°-150°	4059.9	51.6
90°-180°	4684.0	59.5
0°-180°	7870.3	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1252	1252	1252	1252	1252	
5°	1256	1242	1246	1242	1240	119
15°	1195	1180	1182	1180	1178	337
25°	1092	1074	1073	1066	1069	502
35°	939	926	926	917	920	587
45°	755	748	745	743	742	582
55°	560	558	560	552	551	499
65°	354	365	372	357	345	351
75°	163	178	188	175	159	175
85°	28	36	41	39	36	36
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	

TEST NUMBER: P562369

CATALOG NUMBER: SQ4-PW1-100U-075D-92765-1D-UNV-STD-W-4 (6500K)

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1252.5	1252.5	1252.5	1252.5	1252.5
2.5°	1259.6	1249.2	1252.5	1249.7	1243.7
5°	1255.8	1241.8	1245.9	1242.5	1240.4
7.5°	1243.0	1230.1	1233.1	1229.5	1228.2
10°	1231.6	1218.6	1221.6	1217.2	1215.0
12.5°	1218.3	1204.5	1207.5	1203.1	1201.8
15°	1195.1	1180.0	1181.9	1179.6	1177.5
17.5°	1168.2	1152.9	1153.2	1149.7	1149.2
20°	1148.8	1132.6	1131.1	1126.8	1128.9
22.5°	1127.6	1110.6	1109.1	1103.0	1106.0
25°	1092.5	1074.2	1072.6	1066.1	1069.3
27.5°	1051.9	1033.8	1033.8	1024.6	1028.1
30°	1021.9	1004.6	1006.4	995.5	999.8
32.5°	990.1	974.6	975.5	964.6	968.9
35°	939.1	926.2	925.9	917.1	920.4
37.5°	887.0	875.6	873.8	868.7	869.6
40°	850.8	841.1	837.6	834.3	834.3
42.5°	812.9	804.0	800.5	798.1	797.2
45°	754.8	748.4	744.9	742.7	741.6
47.5°	697.4	691.4	688.4	686.8	685.7
50°	657.7	653.4	652.2	648.9	647.8
52.5°	618.0	615.4	614.2	610.0	608.9
55°	559.5	558.4	559.5	551.7	550.7
57.5°	498.6	500.3	503.9	493.4	490.9
60°	458.0	462.3	466.8	454.6	450.2
62.5°	416.5	423.4	429.7	415.7	409.6
65°	354.2	365.0	371.9	357.3	345.4
67.5°	294.2	307.6	315.8	300.1	286.7
70°	252.7	267.8	277.0	261.2	246.1
72.5°	216.5	233.3	240.8	225.9	210.8
75°	163.3	178.4	187.6	175.1	158.9
77.5°	115.9	130.1	137.7	126.8	113.4
80°	85.0	100.1	105.9	96.9	86.1
82.5°	60.3	72.8	76.8	71.3	64.0
85°	27.6	36.2	40.8	38.6	36.4
87.5°	7.1	13.1	16.8	16.8	17.7
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)