

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: P562421

Luminaire Tested: **SQ4-PW1-125U-075D-92765-1D-UNV-STD-W-4 (6500K)**

Issue Date: 7/30/2021

Test Information

Test Method: LM-79-2019
Report Number: P562421
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-PW1-125U-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 1250 LUMENS PER FOOT
Light Source: 2700K/65000K CCT, 90 CRI LEDS, TUNED TO 6500K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

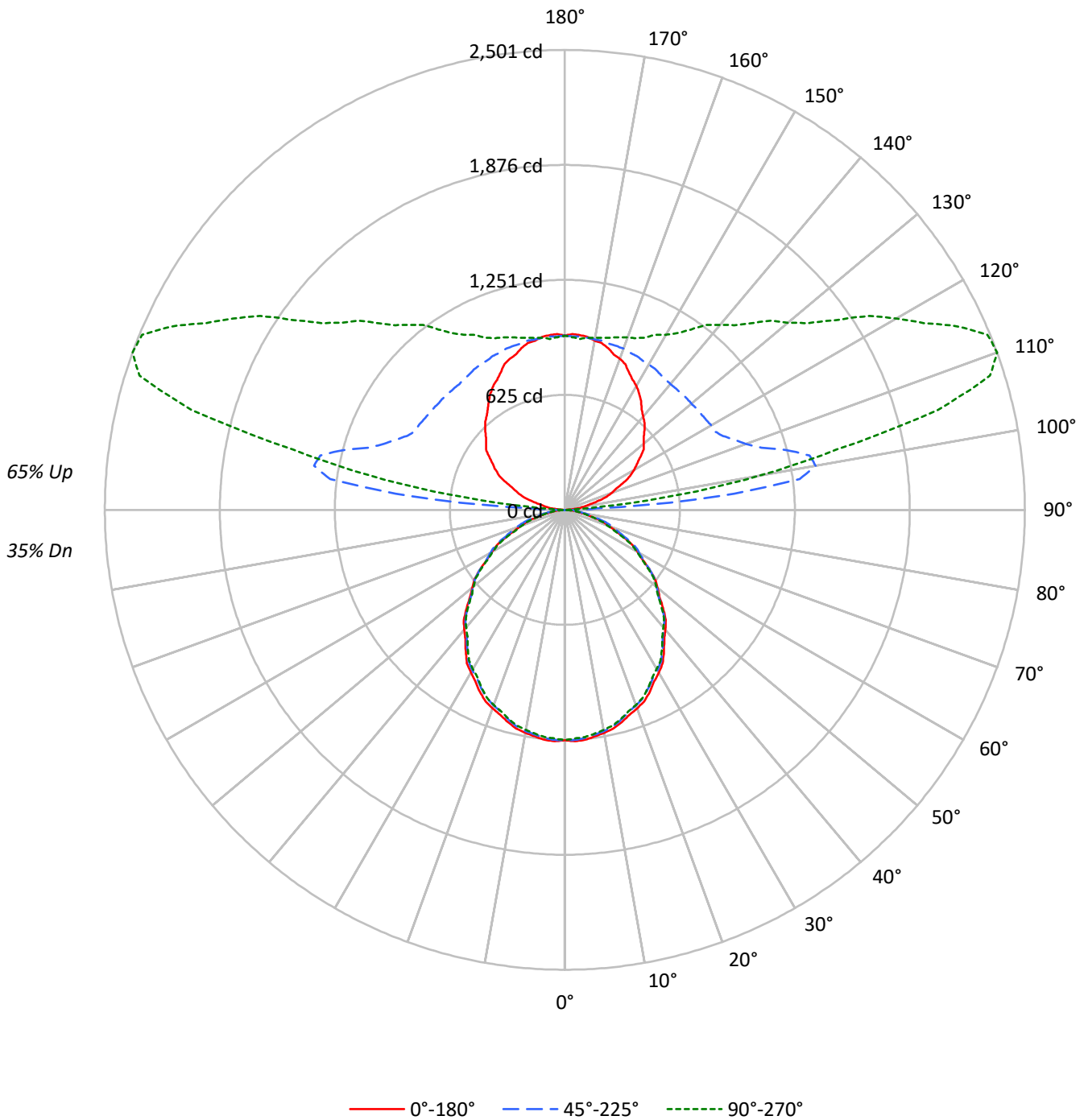
Lumens per Lamp: N/A
Luminaire Lumens: 9069.2 lumens
Efficiency: N/A
Efficacy: 124.4 lumens/watt
Spacing Criteria (0/90/45): 1.22 / 1.19 / 1.31
Luminous Opening: Rectangular (W 0.29' x L: 4' x H: 0')
CIE Type: Semi-Indirect

Input Watts (W): 72.9
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	104	104	104	104	94	94	94	94	75	75	75	58	58	58	42	42	42	35
1	95	90	87	83	85	82	79	76	66	64	62	51	50	48	38	37	36	30
2	86	79	73	68	78	72	67	62	58	54	51	45	43	41	33	32	30	25
3	79	69	62	57	71	63	57	52	51	47	43	40	37	34	29	28	26	21
4	72	61	54	48	65	56	49	44	45	40	37	35	32	29	26	24	22	18
5	66	55	47	41	59	50	43	38	40	35	31	32	28	25	24	21	19	16
6	61	49	41	35	55	44	38	33	36	31	27	29	25	22	21	19	17	14
7	56	44	36	31	50	40	33	29	33	28	24	26	22	20	20	17	15	12
8	52	40	32	27	47	36	30	25	30	25	21	24	20	17	18	15	14	11
9	48	36	29	24	44	33	27	22	27	22	19	22	18	16	17	14	12	10
10	45	33	26	21	41	30	24	20	25	20	17	20	17	14	15	13	11	9

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	1.3
10°-20°	333.0	3.7
20°-30°	493.9	5.4
30°-40°	578.0	6.4
40°-50°	575.4	6.3
50°-60°	496.9	5.5
60°-70°	357.6	3.9
70°-80°	187.5	2.1
80°-90°	46.5	0.5
90°-100°	431.5	4.8
100°-110°	1227.8	13.5
110°-120°	1176.4	13.0
120°-130°	931.1	10.3
130°-140°	747.3	8.2
140°-150°	585.1	6.5
150°-160°	428.1	4.7
160°-170°	265.2	2.9
170°-180°	90.0	1.0
0°-30°	944.9	10.4
0°-40°	1522.8	16.8
0°-60°	2595.1	28.6
0°-90°	3186.8	35.1
90°-120°	2835.8	31.3
90°-150°	5099.2	56.2
90°-180°	5882.0	64.9
0°-180°	9069.2	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°	47	186	835	289	178	54
105°	191	289	1251	2210	2101	202
115°	355	429	949	2010	2360	349
125°	500	555	906	1503	1797	448
135°	612	663	895	1269	1435	472
145°	722	759	902	1099	1197	451
155°	825	844	924	993	1033	381
165°	911	914	934	954	969	256
175°	954	949	945	940	933	90
180°	947	947	947	947	947	

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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°	14.4	76.4	177.2	51.6	38.9
95°	46.8	185.9	835.4	289.1	178.2
97.5°	86.1	217.7	1286.6	920.6	630.9
100°	113.4	236.6	1384.5	1402.4	1080.2
102.5°	143.7	257.0	1362.9	1795.1	1513.8
105°	190.8	289.4	1251.3	2210.2	2101.0
107.5°	238.7	327.1	1120.9	2327.2	2424.4
110°	271.9	354.6	1046.0	2282.4	2500.7



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	303.5	382.1	995.6	2176.5	2487.8
115°	354.7	428.6	948.8	2010.0	2360.3
117.5°	399.7	469.0	921.1	1827.9	2199.0
120°	435.7	493.8	918.2	1723.8	2079.4
122.5°	464.5	522.6	911.0	1632.5	1962.8
125°	500.5	555.1	905.6	1502.8	1796.8
127.5°	539.8	590.8	902.7	1425.3	1667.5
130°	559.9	611.0	898.4	1371.3	1582.5
132.5°	581.5	631.2	898.4	1329.1	1523.5
135°	612.1	663.2	894.8	1269.4	1434.9
137.5°	640.9	690.6	894.4	1218.9	1361.8
140°	662.5	713.6	893.0	1177.0	1314.3
142.5°	687.0	729.6	897.3	1143.5	1266.7
145°	722.0	758.9	902.0	1098.7	1197.3
147.5°	751.8	787.8	909.9	1053.4	1138.6
150°	777.8	802.4	912.8	1038.4	1098.2
152.5°	797.9	824.0	915.7	1018.1	1073.7
155°	824.6	843.9	923.6	992.9	1033.4
157.5°	857.7	869.3	925.4	981.5	1010.4
160°	875.0	883.8	932.6	972.8	997.4
162.5°	885.1	895.3	934.0	965.4	984.4
165°	911.0	914.5	934.4	954.5	968.6
167.5°	928.6	925.5	942.7	951.8	957.4
170°	934.4	932.6	939.8	941.8	948.8
172.5°	947.4	941.4	944.1	938.8	944.5
175°	954.2	948.9	945.2	939.6	932.6
177.5°	957.1	948.6	944.1	938.4	939.8
180°	947.0	947.0	947.0	947.0	947.0

(END OF REPORT)