

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: P562415

Luminaire Tested: **SQ4-PW1-125U-075D-92765-1D-UNV-STD-W-4 (3000K)**

Issue Date: 7/30/2021

Test Information

Test Method: LM-79-2019
Report Number: P562415
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 (3000K)
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 3000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

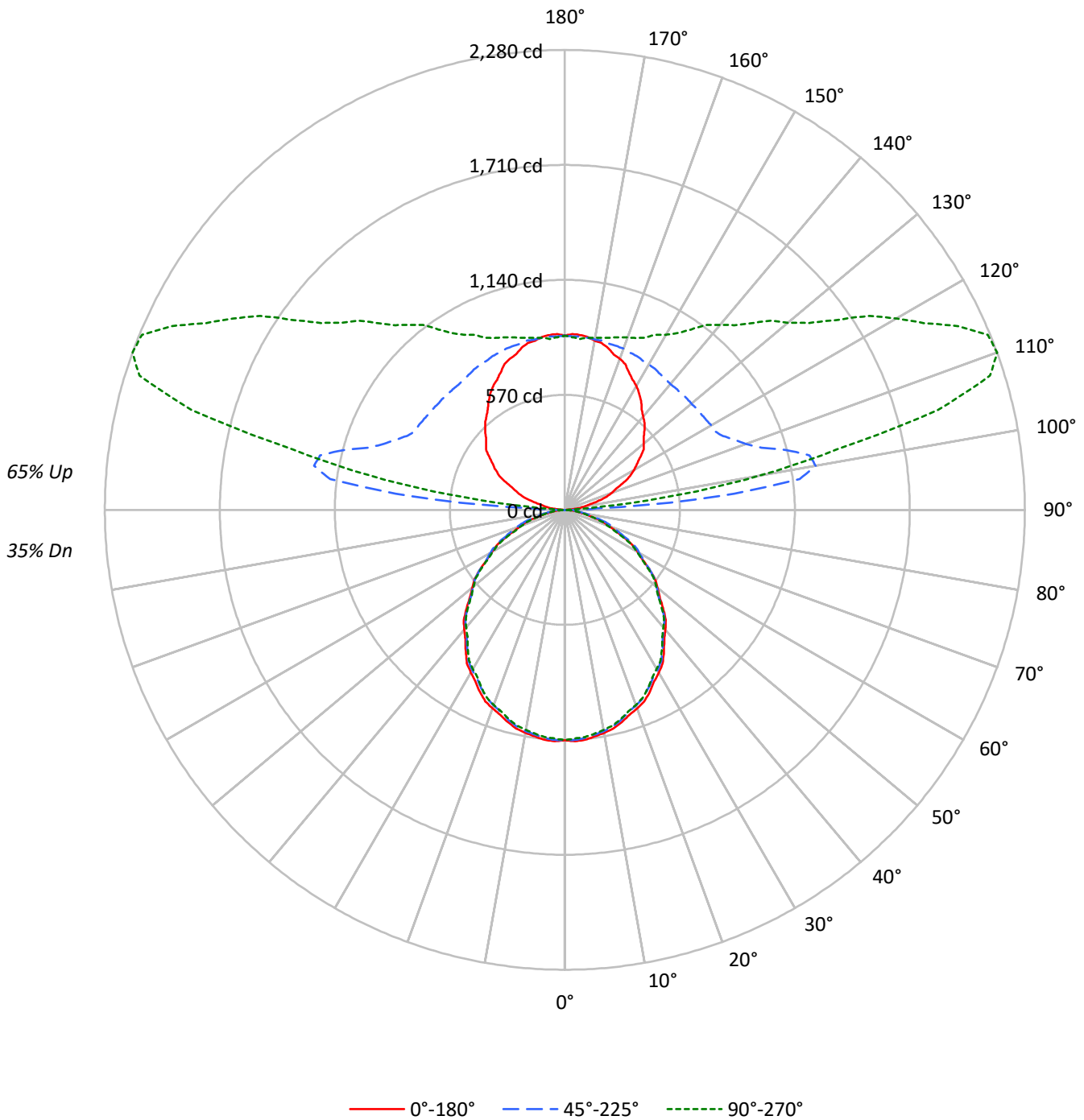
Lumens per Lamp: N/A
Luminaire Lumens: 8268.5 lumens
Efficiency: N/A
Efficacy: 112.7 lumens/watt
Spacing Criteria (0/90/45): 1.22 / 1.19 / 1.31
Luminous Opening: Rectangular (W 0.29' x L: 4' x H: 0')
CIE Type: Semi-Indirect

Input Watts (W): 73.4
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	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°	10535	10535	10535
5°	10604	10520	10474
10°	10519	10435	10378
15°	10407	10293	10254
20°	10284	10126	10106
25°	10140	9955	9924
30°	9926	9776	9711
35°	9643	9507	9451
40°	9342	9197	9161
45°	8980	8861	8822
50°	8606	8535	8477
55°	8205	8205	8076
60°	7704	7853	7575
65°	7051	7403	6875
70°	6215	6811	6053
75°	5308	6096	5165
80°	4118	5133	4171
85°	2668	3938	3515



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	107.5	1.3
10°-20°	303.6	3.7
20°-30°	450.3	5.4
30°-40°	526.9	6.4
40°-50°	524.6	6.3
50°-60°	453.0	5.5
60°-70°	326.1	3.9
70°-80°	171.0	2.1
80°-90°	42.4	0.5
90°-100°	393.4	4.8
100°-110°	1119.5	13.5
110°-120°	1072.5	13.0
120°-130°	848.9	10.3
130°-140°	681.4	8.2
140°-150°	533.4	6.5
150°-160°	390.3	4.7
160°-170°	241.8	2.9
170°-180°	82.0	1.0
0°-30°	861.5	10.4
0°-40°	1388.4	16.8
0°-60°	2365.9	28.6
0°-90°	2905.4	35.1
90°-120°	2585.4	31.3
90°-150°	4649.1	56.2
90°-180°	5363.0	64.9
0°-180°	8268.5	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1142	1142	1142	1142	1142	
5°	1145	1132	1136	1133	1131	108
15°	1090	1076	1078	1076	1074	307
25°	996	979	978	972	975	458
35°	856	844	844	836	839	535
45°	688	682	679	677	676	531
55°	510	509	510	503	502	455
65°	323	333	339	326	315	320
75°	149	163	171	160	145	160
85°	25	33	37	35	33	33
90°	0	0	0	0	0	3
95°	43	170	762	264	162	49
105°	174	264	1141	2015	1916	184
115°	323	391	865	1832	2152	318
125°	456	506	826	1370	1638	408
135°	558	605	816	1157	1308	431
145°	658	692	822	1002	1092	411
155°	752	769	842	905	942	348
165°	831	834	852	870	883	234
175°	870	865	862	857	850	82
180°	863	863	863	863	863	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1141.9	1141.9	1141.9	1141.9	1141.9
2.5°	1148.4	1138.9	1141.9	1139.4	1133.9
5°	1145.0	1132.2	1135.9	1132.8	1130.9
7.5°	1133.3	1121.5	1124.2	1121.0	1119.8
10°	1122.8	1111.0	1113.8	1109.7	1107.7
12.5°	1110.8	1098.2	1100.9	1096.8	1095.7
15°	1089.6	1075.9	1077.6	1075.5	1073.5
17.5°	1065.1	1051.1	1051.4	1048.2	1047.8
20°	1047.4	1032.6	1031.3	1027.3	1029.3
22.5°	1028.1	1012.5	1011.2	1005.6	1008.3
25°	996.1	979.3	977.9	972.0	974.9
27.5°	959.0	942.5	942.5	934.2	937.3
30°	931.7	915.9	917.6	907.6	911.5
32.5°	902.7	888.5	889.4	879.4	883.4
35°	856.2	844.4	844.1	836.2	839.1
37.5°	808.7	798.3	796.6	792.0	792.8
40°	775.7	766.9	763.6	760.6	760.6
42.5°	741.1	733.0	729.8	727.6	726.8
45°	688.2	682.3	679.1	677.1	676.1
47.5°	635.9	630.4	627.6	626.2	625.2
50°	599.6	595.7	594.6	591.6	590.6
52.5°	563.4	561.1	560.0	556.2	555.2
55°	510.1	509.1	510.1	503.0	502.1
57.5°	454.6	456.1	459.4	449.9	447.5
60°	417.5	421.5	425.6	414.4	410.5
62.5°	379.7	386.0	391.8	379.0	373.5
65°	323.0	332.8	339.1	325.7	314.9
67.5°	268.2	280.4	288.0	273.6	261.4
70°	230.4	244.2	252.5	238.1	224.4
72.5°	197.4	212.7	219.5	205.9	192.2
75°	148.9	162.7	171.0	159.6	144.9
77.5°	105.6	118.6	125.6	115.6	103.4
80°	77.5	91.2	96.6	88.3	78.5
82.5°	54.9	66.3	70.0	65.0	58.4
85°	25.2	33.0	37.2	35.2	33.2
87.5°	6.4	11.9	15.3	15.3	16.1
90°	0.0	0.0	0.0	0.0	0.0
92.5°	13.1	69.6	161.5	47.0	35.5
95°	42.7	169.5	761.6	263.6	162.5
97.5°	78.5	198.5	1173.0	839.3	575.2
100°	103.4	215.8	1262.3	1278.6	984.9
102.5°	131.0	234.3	1242.6	1636.6	1380.1
105°	174.0	263.9	1140.8	2015.1	1915.6
107.5°	217.7	298.2	1022.0	2121.8	2210.4
110°	247.9	323.3	953.7	2080.9	2279.9



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	276.7	348.3	907.7	1984.4	2268.1
115°	323.4	390.8	865.0	1832.5	2151.9
117.5°	364.4	427.6	839.8	1666.5	2004.8
120°	397.2	450.2	837.1	1571.7	1895.9
122.5°	423.5	476.5	830.6	1488.4	1789.5
125°	456.3	506.1	825.6	1370.1	1638.1
127.5°	492.1	538.6	823.0	1299.5	1520.3
130°	510.5	557.0	819.1	1250.2	1442.8
132.5°	530.2	575.4	819.1	1211.8	1389.0
135°	558.1	604.6	815.8	1157.4	1308.2
137.5°	584.3	629.6	815.5	1111.3	1241.6
140°	604.0	650.6	814.2	1073.1	1198.2
142.5°	626.4	665.2	818.1	1042.6	1154.9
145°	658.2	691.9	822.4	1001.7	1091.6
147.5°	685.5	718.2	829.6	960.4	1038.0
150°	709.1	731.6	832.2	946.7	1001.3
152.5°	727.5	751.2	834.8	928.2	978.9
155°	751.8	769.4	842.1	905.3	942.2
157.5°	782.0	792.6	843.7	894.9	921.2
160°	797.7	805.8	850.3	886.9	909.4
162.5°	806.9	816.2	851.6	880.2	897.5
165°	830.6	833.8	851.9	870.3	883.1
167.5°	846.7	843.8	859.5	867.8	872.9
170°	851.9	850.3	856.8	858.6	865.0
172.5°	863.7	858.3	860.8	856.0	861.1
175°	870.0	865.1	861.8	856.7	850.3
177.5°	872.6	864.9	860.8	855.5	856.8
180°	863.4	863.4	863.4	863.4	863.4

(END OF REPORT)