

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: P523896

Luminaire Tested: **SQ4-PP3-125U-075D-92765-1D-UNV-STD-W-4 (4500K)**

Issue Date: 5/24/2021

Test Information

Test Method: LM-79-2019
Report Number: P523896
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2101-105-51, G2-2103-172-1)
Test Lab: INNOVATION CENTER
Issue Date: 5/24/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: CORELITE
Catalog Number: SQ4-PP3-125U-075D-92765-1D-UNV-STD-W-4 (4500K)
Description: CORELITE SQ4 SUSPENDED LED LUMINAIRE WITH PERCEIVE PRISM CONTINUOUS LENS
DOWNLIGHT 750 LUMENS PER FOOT
UPLIGHT 1250 LUMENS PER FOOT
Light Source: 2700K/65000K CCT, 90 CRI LEDS, TUNED TO 4500K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

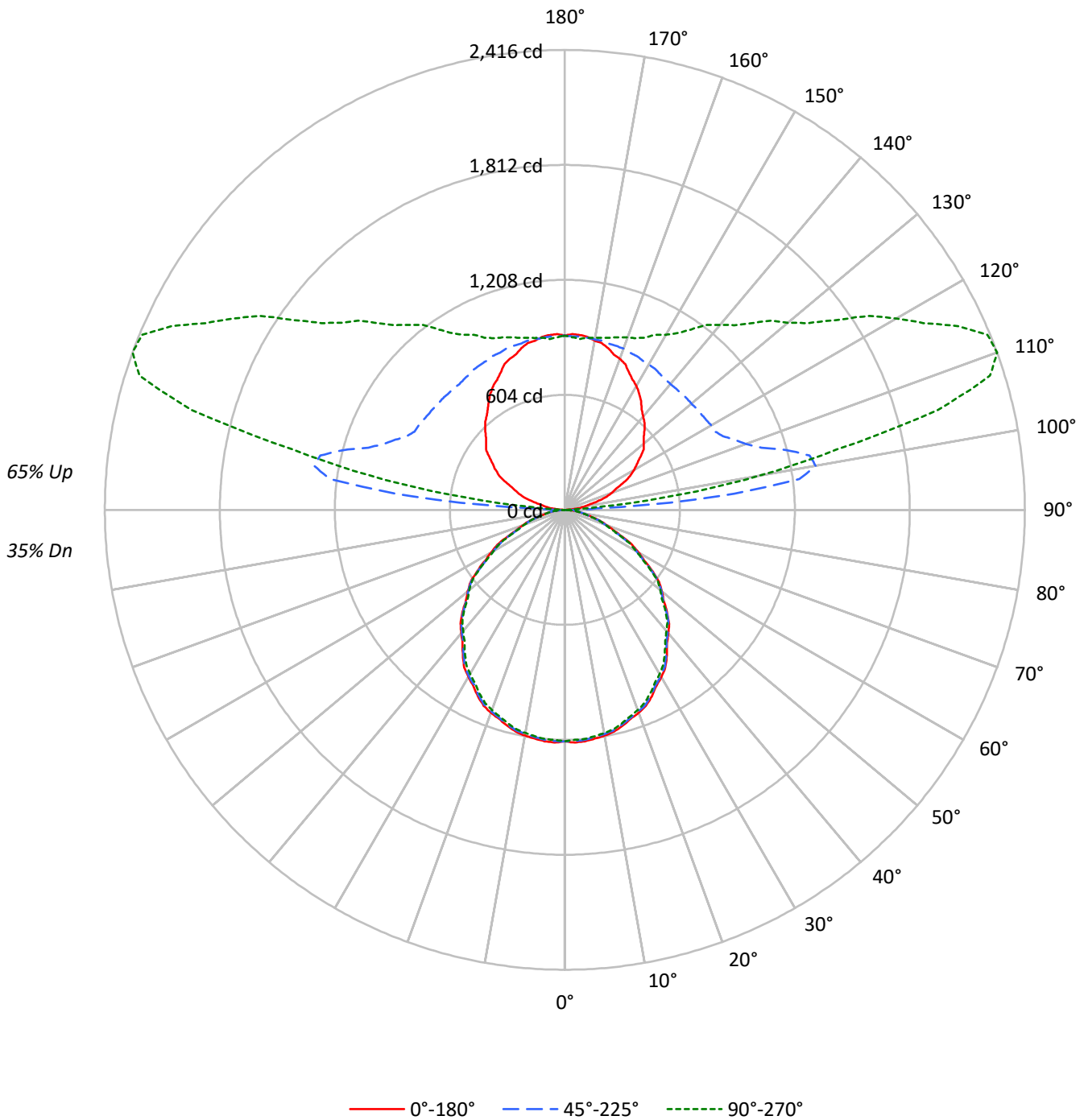
Lumens per Lamp: N/A
Luminaire Lumens: 8794.9 lumens
Efficiency: N/A
Efficacy: 120.0 lumens/watt
Spacing Criteria (0/90/45): 1.24 / 1.22 / 1.33
Luminous Opening: Rectangular (W 0.29' x L: 4' x H: 0')
CIE Type: Semi-Indirect

Input Watts (W): 73.3
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	43	43	43	35				
1	95	91	87	83	85	82	79	76	66	64	62	51	50	49	38	37	36	30				
2	86	79	73	68	78	72	67	63	58	54	51	45	43	41	34	32	31	25				
3	79	70	63	57	71	63	57	52	51	47	43	40	37	35	30	28	26	22				
4	72	62	54	48	65	56	49	44	45	41	37	36	32	30	27	24	23	19				
5	66	55	47	41	59	50	43	38	41	36	32	32	28	26	24	22	20	16				
6	61	49	41	36	55	45	38	33	37	31	28	29	25	22	22	19	17	14				
7	56	44	36	31	51	40	34	29	33	28	24	26	23	20	20	17	15	13				
8	52	40	32	27	47	37	30	25	30	25	21	24	20	18	18	16	14	11				
9	48	36	29	24	44	33	27	23	28	23	19	22	18	16	17	14	12	10				
10	45	33	26	22	41	31	24	20	25	20	17	20	17	14	16	13	11	9				

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	11220	11220	11220
5°	11302	11233	11193
10°	11283	11203	11153
15°	11208	11147	11086
20°	11134	11071	10988
25°	11002	10925	10817
30°	10798	10741	10604
35°	10515	10443	10311
40°	10180	10115	9999
45°	9901	9832	9734
50°	9545	9485	9393
55°	9051	8932	8863
60°	8241	8005	7964
65°	7259	6958	6934
70°	6266	6007	6007
75°	5393	5319	5244
80°	4755	4814	4702
85°	3726	4065	4065



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	115.0	1.3
10°-20°	328.3	3.7
20°-30°	491.8	5.6
30°-40°	576.8	6.6
40°-50°	578.7	6.6
50°-60°	493.6	5.6
60°-70°	321.9	3.7
70°-80°	161.5	1.8
80°-90°	44.7	0.5
90°-100°	416.8	4.7
100°-110°	1186.1	13.5
110°-120°	1136.4	12.9
120°-130°	899.4	10.2
130°-140°	721.9	8.2
140°-150°	565.2	6.4
150°-160°	413.5	4.7
160°-170°	256.2	2.9
170°-180°	86.9	1.0
0°-30°	935.1	10.6
0°-40°	1512.0	17.2
0°-60°	2584.3	29.4
0°-90°	3112.4	35.4
90°-120°	2739.4	31.1
90°-150°	4925.9	56.0
90°-180°	5682.0	64.6
0°-180°	8794.9	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1216	1216	1216	1216	1216	
5°	1220	1209	1213	1209	1209	116
15°	1173	1162	1167	1163	1161	331
25°	1081	1068	1073	1064	1063	497
35°	934	924	927	916	916	583
45°	759	754	754	746	746	584
55°	563	561	555	552	551	500
65°	332	326	319	317	318	332
75°	151	151	149	148	147	164
85°	35	38	38	38	38	41
90°	0	0	0	0	0	3
95°	45	180	807	279	172	52
105°	184	280	1209	2135	2030	195
115°	343	414	916	1942	2280	337
125°	484	536	875	1452	1736	433
135°	591	641	864	1226	1386	456
145°	697	733	871	1061	1157	436
155°	796	815	892	959	998	368
165°	880	883	903	922	936	247
175°	922	917	913	908	901	87
180°	915	915	915	915	915	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1216.1	1216.1	1216.1	1216.1	1216.1
2.5°	1223.7	1213.7	1216.1	1214.2	1209.2
5°	1220.3	1208.9	1212.9	1208.6	1208.6
7.5°	1212.0	1199.5	1203.5	1199.2	1199.0
10°	1204.3	1191.8	1195.8	1191.5	1190.5
12.5°	1193.2	1180.7	1185.6	1180.5	1180.2
15°	1173.4	1162.0	1167.0	1162.7	1160.6
17.5°	1151.0	1138.5	1144.6	1138.7	1137.8
20°	1134.0	1121.5	1127.6	1119.1	1119.1
22.5°	1113.5	1101.0	1108.0	1096.9	1096.9
25°	1080.7	1068.2	1073.2	1063.6	1062.6
27.5°	1041.7	1029.4	1034.7	1023.8	1023.6
30°	1013.6	1002.1	1008.2	996.5	995.4
32.5°	982.9	972.2	976.7	964.9	963.9
35°	933.6	924.2	927.2	916.5	915.5
37.5°	881.8	872.2	875.6	866.5	866.1
40°	845.2	838.9	839.8	832.3	830.2
42.5°	811.1	804.0	804.9	797.4	797.0
45°	758.8	753.6	753.5	746.0	746.0
47.5°	703.4	699.5	698.3	692.1	691.9
50°	665.0	661.9	660.8	655.4	654.4
52.5°	625.0	623.5	619.9	615.4	615.2
55°	562.7	560.6	555.3	552.1	551.0
57.5°	495.2	491.0	484.9	480.3	481.1
60°	446.6	442.4	433.8	431.6	431.6
62.5°	399.7	394.7	386.0	383.1	384.7
65°	332.5	326.3	318.7	316.6	317.6
67.5°	271.6	265.9	257.7	257.7	256.9
70°	232.3	229.2	222.7	222.7	222.7
72.5°	197.4	195.9	191.2	191.2	190.3
75°	151.3	151.3	149.2	148.1	147.1
77.5°	113.4	113.8	112.8	111.7	109.8
80°	89.5	91.6	90.6	89.5	88.5
82.5°	67.4	69.4	69.3	67.4	67.1
85°	35.2	38.3	38.4	38.4	38.4
87.5°	9.4	12.7	13.6	13.7	14.5
90°	0.0	0.0	0.0	0.0	0.0
92.5°	13.9	73.8	171.1	49.8	37.6
95°	45.2	179.6	807.0	279.3	172.2
97.5°	83.1	210.3	1242.8	889.3	609.4
100°	109.6	228.6	1337.4	1354.7	1043.5
102.5°	138.8	248.3	1316.6	1734.0	1462.3
105°	184.4	279.6	1208.7	2135.1	2029.6
107.5°	230.6	316.0	1082.8	2248.1	2342.0
110°	262.6	342.5	1010.5	2204.9	2415.7

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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	293.2	369.1	961.8	2102.5	2403.2
115°	342.6	414.0	916.5	1941.7	2280.1
117.5°	386.1	453.1	889.8	1765.8	2124.2
120°	420.9	477.0	887.0	1665.2	2008.8
122.5°	448.7	504.8	880.0	1577.0	1896.1
125°	483.5	536.2	874.8	1451.7	1735.7
127.5°	521.4	570.7	872.0	1376.8	1610.8
130°	540.9	590.2	867.9	1324.7	1528.7
132.5°	561.8	609.7	867.9	1284.0	1471.7
135°	591.3	640.6	864.4	1226.3	1386.1
137.5°	619.1	667.1	864.0	1177.4	1315.5
140°	640.0	689.3	862.6	1137.0	1269.6
142.5°	663.7	704.8	866.8	1104.6	1223.7
145°	697.4	733.1	871.3	1061.3	1156.6
147.5°	726.3	761.0	879.0	1017.6	1099.9
150°	751.3	775.1	881.8	1003.1	1060.9
152.5°	770.8	796.0	884.5	983.5	1037.2
155°	796.5	815.2	892.2	959.2	998.3
157.5°	828.5	839.8	893.9	948.1	976.0
160°	845.2	853.7	900.9	939.7	963.5
162.5°	855.0	864.8	902.3	932.6	951.0
165°	880.0	883.4	902.6	922.1	935.7
167.5°	897.1	894.0	910.6	919.5	924.9
170°	902.6	900.9	907.9	909.7	916.5
172.5°	915.2	909.4	912.0	906.9	912.4
175°	921.8	916.7	913.1	907.7	900.9
177.5°	924.5	916.4	912.0	906.5	907.9
180°	914.8	914.8	914.8	914.8	914.8

(END OF REPORT)