

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: P563656

Luminaire Tested: **SQ4-PP3-100U-125D-940-1D-UNV-STD-W-8**

Issue Date: 7/30/2021

Test Information

Test Method: LM-79-2019
Report Number: P563656
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1910-536-23, G2-2103-172-1)
Test Lab: INNOVATION CENTER
Issue Date: 7/30/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: CORELITE
Catalog Number: SQ4-PP3-100U-125D-940-1D-UNV-STD-W-8
Description: CORELITE SQ4 SUSPENDED LED LUMINAIRE WITH PERCEIVE PRISM CONTINUOUS LENS.
DOWNLIGHT 1250 LUMENS PER FOOT
UPLIGHT 1000 LUMENS PER FOOT
Light Source: 4000K CCT, 90 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

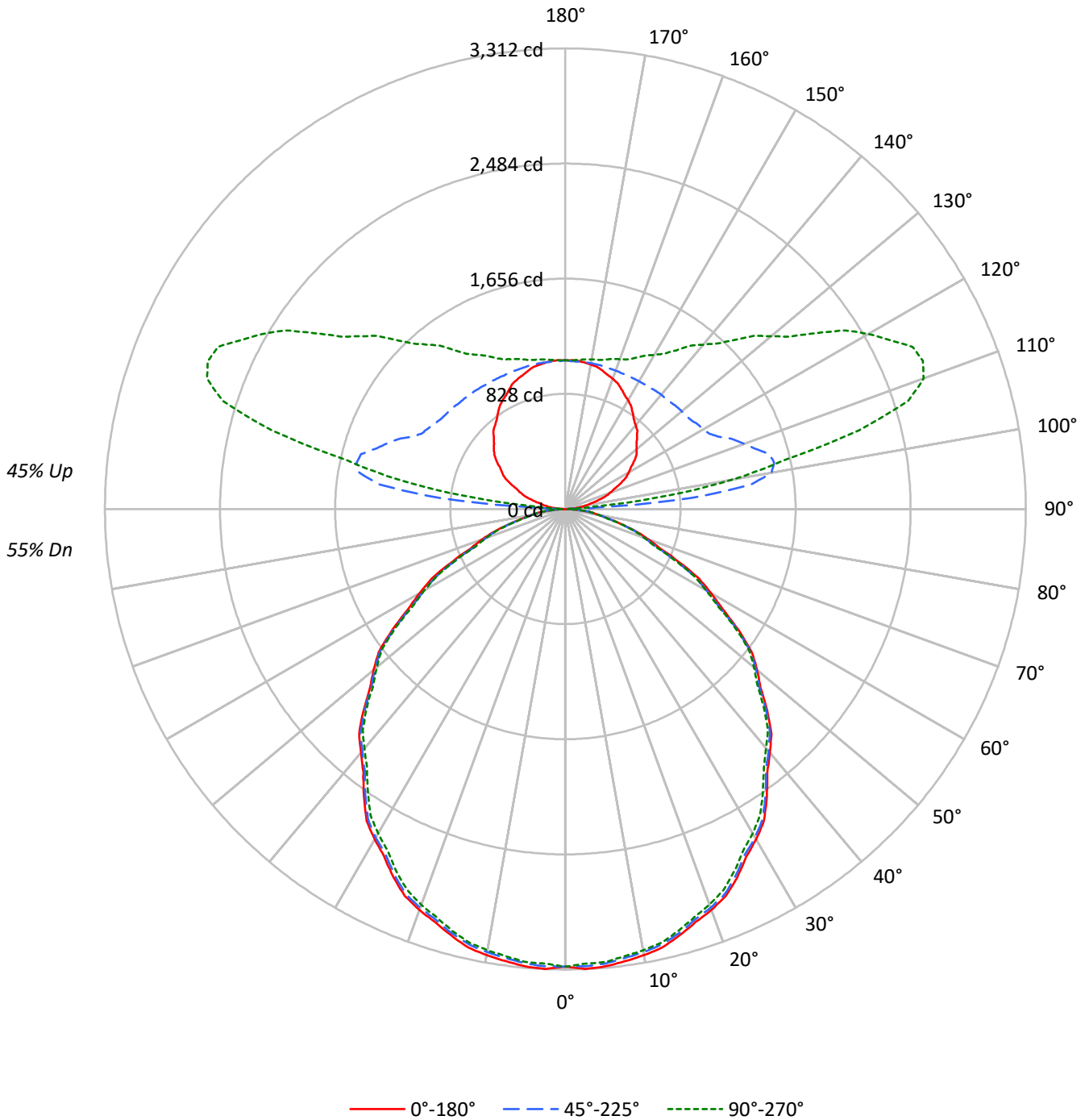
Lumens per Lamp: N/A
Luminaire Lumens: 15369.2 lumens
Efficiency: N/A
Efficacy: 109.3 lumens/watt
Spacing Criteria (0/90/45): 1.24 / 1.22 / 1.33
Luminous Opening: Rectangular (W 0.29' x L: 8' x H: 0')
CIE Type: General Diffuse

Input Watts (W): 140.6
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	108	108	108	108	101	101	101	101	86	86	86	73	73	73	61	61	61	55
1	99	95	91	88	92	88	85	82	76	73	71	64	63	61	54	53	52	47
2	90	83	77	72	84	77	72	68	67	63	59	57	54	51	48	46	44	39
3	83	73	66	60	76	68	62	57	59	54	50	50	47	44	42	40	37	34
4	76	65	57	51	70	61	54	48	52	47	43	45	41	37	38	35	32	29
5	69	58	50	44	64	54	47	41	47	41	37	40	36	33	34	31	28	25
6	64	52	44	38	59	49	41	36	42	37	32	37	32	29	31	28	25	22
7	59	47	39	33	55	44	37	32	38	33	28	33	29	25	28	25	22	20
8	55	43	35	29	51	40	33	28	35	29	25	30	26	23	26	22	20	18
9	51	39	31	26	48	37	30	25	32	27	23	28	23	20	24	21	18	16
10	48	36	28	24	44	34	27	23	30	24	20	26	21	18	22	19	16	14

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	15181	15181	15181
5°	15292	15199	15146
10°	15267	15159	15091
15°	15166	15083	15000
20°	15065	14980	14867
25°	14886	14783	14637
30°	14611	14534	14350
35°	14229	14131	13952
40°	13773	13687	13530
45°	13398	13303	13172
50°	12917	12833	12709
55°	12248	12086	11992
60°	11150	10831	10777
65°	9823	9414	9382
70°	8481	8130	8130
75°	7301	7197	7094
80°	6437	6514	6360
85°	5039	5494	5494



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	311.2	2.0
10°-20°	888.5	5.8
20°-30°	1330.9	8.7
30°-40°	1561.1	10.2
40°-50°	1566.0	10.2
50°-60°	1335.9	8.7
60°-70°	871.2	5.7
70°-80°	437.1	2.8
80°-90°	123.2	0.8
90°-100°	500.5	3.3
100°-110°	1381.7	9.0
110°-120°	1425.0	9.3
120°-130°	1145.1	7.5
130°-140°	899.9	5.9
140°-150°	690.2	4.5
150°-160°	496.0	3.2
160°-170°	303.4	2.0
170°-180°	102.3	0.7
0°-30°	2530.6	16.5
0°-40°	4091.7	26.6
0°-60°	6993.6	45.5
0°-90°	8425.1	54.8
90°-120°	3307.2	21.5
90°-150°	6042.4	39.3
90°-180°	6944.0	45.2
0°-180°	15369.2	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	3291	3291	3291	3291	3291	
5°	3302	3271	3282	3271	3271	314
15°	3176	3144	3158	3147	3141	896
25°	2925	2891	2904	2878	2876	1345
35°	2527	2501	2509	2480	2478	1578
45°	2054	2040	2039	2019	2019	1581
55°	1523	1517	1503	1494	1491	1353
65°	900	883	862	857	860	898
75°	410	410	404	401	398	444
85°	95	104	104	104	104	112
90°	3	7	14	15	17	9
95°	74	271	908	373	243	79
105°	246	380	1520	2321	2185	262
115°	441	533	1224	2424	2756	434
125°	605	689	1110	1878	2204	539
135°	728	807	1079	1521	1715	564
145°	845	903	1065	1295	1394	529
155°	952	984	1057	1162	1199	439
165°	1031	1044	1062	1103	1112	291
175°	1069	1070	1064	1079	1076	102
180°	1069	1069	1069	1069	1069	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	3290.9	3290.9	3290.9	3290.9	3290.9
2.5°	3311.7	3284.6	3290.9	3286.0	3272.4
5°	3302.4	3271.4	3282.2	3270.7	3270.7
7.5°	3279.9	3246.1	3256.9	3245.3	3244.8
10°	3259.2	3225.3	3236.1	3224.5	3221.7
12.5°	3229.2	3195.3	3208.4	3194.6	3194.0
15°	3175.5	3144.5	3158.2	3146.6	3140.9
17.5°	3115.0	3081.1	3097.7	3081.5	3079.2
20°	3068.8	3035.0	3051.5	3028.4	3028.4
22.5°	3013.4	2979.6	2998.4	2968.4	2968.4
25°	2924.6	2890.8	2904.4	2878.4	2875.6
27.5°	2819.0	2785.8	2800.0	2770.6	2770.0
30°	2742.9	2711.9	2728.5	2696.7	2693.9
32.5°	2659.8	2631.1	2643.1	2611.3	2608.5
35°	2526.6	2501.2	2509.3	2480.4	2477.5
37.5°	2386.4	2360.5	2369.7	2344.8	2343.7
40°	2287.2	2270.3	2272.8	2252.5	2246.8
42.5°	2194.9	2175.7	2178.2	2158.0	2156.8
45°	2053.6	2039.5	2039.1	2019.0	2019.0
47.5°	1903.6	1892.9	1889.7	1873.0	1872.4
50°	1799.8	1791.3	1788.2	1773.7	1770.9
52.5°	1691.3	1687.4	1677.5	1665.3	1664.8
55°	1522.9	1517.2	1502.7	1494.0	1491.1
57.5°	1340.0	1328.7	1312.3	1299.7	1301.9
60°	1208.5	1197.2	1173.9	1168.1	1168.1
62.5°	1081.6	1068.0	1044.7	1036.7	1041.2
65°	899.9	883.0	862.4	856.7	859.5
67.5°	734.9	719.7	697.4	697.4	695.1
70°	628.8	620.3	602.8	602.8	602.8
72.5°	534.2	530.2	517.4	517.4	515.1
75°	409.6	409.6	403.8	400.8	398.0
77.5°	306.9	308.0	305.2	302.2	297.1
80°	242.3	247.9	245.2	242.2	239.4
82.5°	182.3	187.9	187.5	182.3	181.7
85°	95.2	103.6	103.8	103.8	103.8
87.5°	26.1	35.8	39.7	40.1	42.6
90°	3.4	6.8	13.7	15.4	17.1
92.5°	30.8	127.8	228.5	83.4	65.0
95°	73.5	270.8	908.0	373.2	242.8
97.5°	121.7	303.3	1345.1	1035.6	750.0
100°	157.3	322.8	1506.5	1517.1	1232.9
102.5°	191.5	345.0	1537.9	1874.5	1605.0
105°	246.2	380.0	1520.2	2320.8	2185.3
107.5°	304.4	423.4	1435.3	2536.0	2585.5
110°	345.4	452.4	1369.7	2582.3	2742.8



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	382.3	485.3	1308.1	2545.7	2782.5
115°	441.2	533.1	1224.3	2423.8	2756.5
117.5°	492.5	584.1	1169.3	2252.1	2630.6
120°	526.7	617.0	1147.4	2135.9	2517.1
122.5°	559.5	645.8	1129.6	2027.3	2388.5
125°	605.3	688.9	1109.8	1878.1	2204.2
127.5°	644.3	727.9	1098.1	1751.9	2033.2
130°	670.3	753.9	1092.7	1674.7	1930.6
132.5°	694.9	774.5	1087.2	1609.9	1841.6
135°	728.4	807.0	1079.0	1521.2	1715.1
137.5°	766.1	837.6	1074.9	1446.6	1612.2
140°	786.6	856.8	1072.2	1396.9	1542.4
142.5°	809.8	874.7	1069.4	1352.8	1480.8
145°	844.7	903.2	1065.3	1295.0	1393.6
147.5°	878.2	929.4	1061.5	1246.3	1322.8
150°	902.9	944.7	1060.2	1217.2	1279.1
152.5°	922.0	961.1	1058.8	1192.3	1243.5
155°	952.5	984.2	1056.8	1161.9	1198.7
157.5°	980.5	1004.9	1057.1	1139.8	1164.8
160°	996.9	1018.6	1058.5	1127.3	1145.7
162.5°	1010.6	1029.7	1059.8	1116.3	1130.6
165°	1031.1	1044.5	1061.9	1103.1	1111.5
167.5°	1046.8	1054.9	1063.6	1095.1	1097.8
170°	1055.1	1061.7	1063.6	1091.0	1091.0
172.5°	1061.9	1065.9	1063.6	1085.5	1084.1
175°	1068.7	1070.4	1063.6	1078.9	1075.6
177.5°	1071.5	1070.1	1063.3	1072.8	1070.1
180°	1068.7	1068.7	1068.7	1068.7	1068.7

(END OF REPORT)