

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: P563744

Luminaire Tested: **SQ4-PP3-125U-125D-930-1D-UNV-STD-W-8**

Issue Date: 7/30/2021

Test Information

Test Method: LM-79-2019
Report Number: P563744
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1910-536-24, 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-PP3-125U-125D-930-1D-UNV-STD-W-8
Description: CORELITE SQ4 SUSPENDED LED LUMINAIRE WITH PERCEIVE PRISM CONTINUOUS LENS.
DOWNLIGHT 1250 LUMENS PER FOOT
UPLIGHT 1250 LUMENS PER FOOT
Light Source: 3000K CCT, 90 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

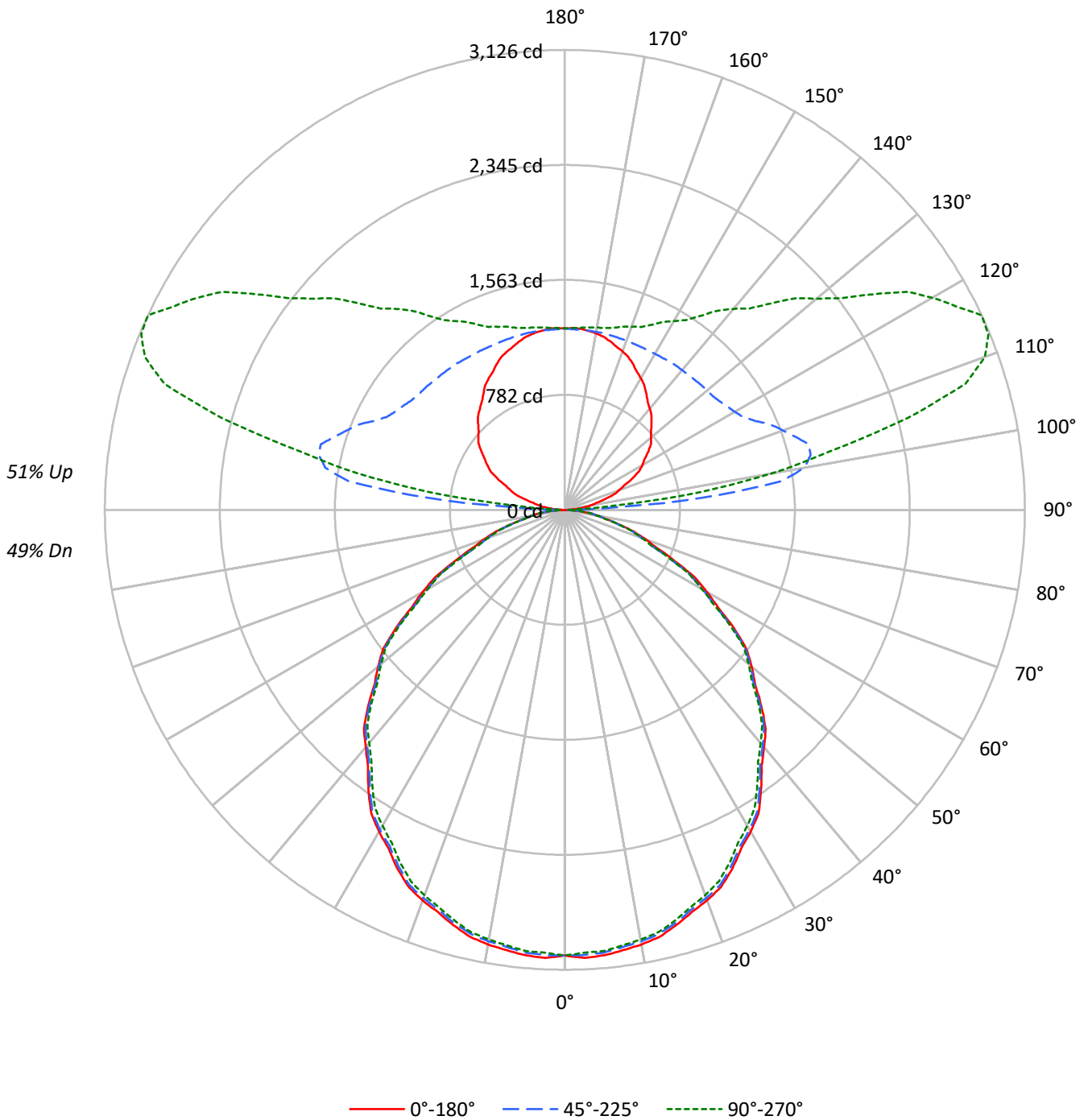
Lumens per Lamp: N/A
Luminaire Lumens: 15712.7 lumens
Efficiency: N/A
Efficacy: 102.9 lumens/watt
Spacing Criteria (0/90/45): 1.24 / 1.22 / 1.33
Luminous Opening: Rectangular (W 0.29' x L: 8' x H: 0')
CIE Type: General Diffuse

Input Watts (W): 152.7
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	107	107	107	107	99	99	99	99	83	83	83	69	69	69	56	56	56	49				
1	98	94	90	86	90	86	83	80	73	71	69	61	59	58	49	48	47	42				
2	89	82	76	71	82	76	71	66	64	60	57	54	51	48	44	42	40	35				
3	81	72	65	59	75	67	60	55	57	52	48	47	44	41	39	36	34	30				
4	75	64	56	50	69	59	52	47	50	45	41	42	38	35	35	32	30	26				
5	68	57	49	43	63	53	46	40	45	40	35	38	34	31	31	28	26	23				
6	63	51	43	37	58	48	40	35	41	35	31	34	30	27	28	25	23	20				
7	58	46	38	33	54	43	36	31	37	31	27	31	27	24	26	23	20	18				
8	54	42	34	29	50	39	32	27	34	28	24	29	24	21	24	21	18	16				
9	50	38	31	26	46	36	29	24	31	25	22	26	22	19	22	19	16	14				
10	47	35	28	23	43	33	26	22	28	23	20	24	20	17	20	17	15	13				

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	13974	13974	13974
5°	14077	13991	13942
10°	14053	13953	13892
15°	13960	13884	13808
20°	13867	13789	13685
25°	13703	13608	13473
30°	13449	13379	13209
35°	13097	13008	12843
40°	12679	12599	12455
45°	12332	12245	12125
50°	11890	11814	11699
55°	11274	11125	11039
60°	10263	9970	9920
65°	9041	8665	8636
70°	7807	7484	7484
75°	6720	6625	6531
80°	5924	5996	5855
85°	4637	5060	5060



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	286.4	1.8
10°-20°	817.9	5.2
20°-30°	1225.1	7.8
30°-40°	1437.0	9.1
40°-50°	1441.5	9.2
50°-60°	1229.7	7.8
60°-70°	802.0	5.1
70°-80°	402.4	2.6
80°-90°	114.3	0.7
90°-100°	576.6	3.7
100°-110°	1553.1	9.9
110°-120°	1629.9	10.4
120°-130°	1322.7	8.4
130°-140°	1037.3	6.6
140°-150°	796.4	5.1
150°-160°	572.6	3.6
160°-170°	349.8	2.2
170°-180°	118.0	0.8
0°-30°	2329.5	14.8
0°-40°	3766.4	24.0
0°-60°	6437.6	41.0
0°-90°	7756.2	49.4
90°-120°	3759.6	23.9
90°-150°	6916.0	44.0
90°-180°	7956.0	50.6
0°-180°	15712.7	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	3029	3029	3029	3029	3029	
5°	3040	3011	3021	3011	3011	289
15°	2923	2894	2907	2896	2891	825
25°	2692	2661	2674	2650	2647	1238
35°	2326	2302	2310	2283	2281	1453
45°	1890	1877	1877	1858	1858	1456
55°	1402	1397	1383	1375	1373	1246
65°	828	813	794	789	791	827
75°	377	377	372	369	366	409
85°	88	95	96	96	96	103
90°	3	9	19	20	20	9
95°	88	314	945	483	334	92
105°	287	447	1718	2570	2412	302
115°	507	621	1430	2764	3126	499
125°	692	795	1284	2171	2554	618
135°	834	930	1248	1751	1983	643
145°	964	1039	1232	1497	1608	605
155°	1094	1134	1222	1343	1386	504
165°	1187	1201	1226	1275	1281	335
175°	1234	1232	1228	1245	1242	117
180°	1232	1232	1232	1232	1232	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	3029.3	3029.3	3029.3	3029.3	3029.3
2.5°	3048.4	3023.5	3029.3	3024.7	3012.3
5°	3039.9	3011.3	3021.3	3010.7	3010.7
7.5°	3019.2	2988.0	2997.9	2987.3	2986.8
10°	3000.1	2968.9	2978.8	2968.2	2965.6
12.5°	2972.5	2941.3	2953.3	2940.6	2940.1
15°	2923.1	2894.5	2907.1	2896.4	2891.2
17.5°	2867.3	2836.2	2851.4	2836.5	2834.4
20°	2824.8	2793.7	2808.9	2787.7	2787.7
22.5°	2773.9	2742.7	2760.1	2732.5	2732.5
25°	2692.1	2660.9	2673.5	2649.6	2647.0
27.5°	2594.9	2564.3	2577.4	2550.3	2549.8
30°	2524.8	2496.3	2511.6	2482.3	2479.7
32.5°	2448.4	2421.9	2433.0	2403.7	2401.1
35°	2325.7	2302.4	2309.8	2283.2	2280.6
37.5°	2196.7	2172.8	2181.3	2158.4	2157.4
40°	2105.4	2089.8	2092.1	2073.4	2068.2
42.5°	2020.4	2002.7	2005.0	1986.4	1985.4
45°	1890.3	1877.3	1877.0	1858.5	1858.5
47.5°	1752.3	1742.4	1739.5	1724.1	1723.6
50°	1656.7	1648.9	1646.1	1632.7	1630.1
52.5°	1556.9	1553.2	1544.1	1532.9	1532.4
55°	1401.8	1396.6	1383.2	1375.2	1372.6
57.5°	1233.5	1223.1	1208.0	1196.4	1198.4
60°	1112.4	1102.0	1080.6	1075.2	1075.2
62.5°	995.6	983.1	961.6	954.3	958.4
65°	828.3	812.8	793.8	788.6	791.2
67.5°	676.5	662.5	642.0	641.9	639.8
70°	578.8	571.0	554.9	554.9	554.9
72.5°	491.7	488.1	476.3	476.2	474.2
75°	377.0	377.0	371.7	369.0	366.4
77.5°	282.5	283.5	280.9	278.1	273.5
80°	223.0	228.2	225.7	223.0	220.4
82.5°	167.8	173.0	172.6	167.8	167.3
85°	87.6	95.4	95.6	95.6	95.6
87.5°	24.0	33.5	37.8	38.1	40.2
90°	3.1	9.3	18.8	20.4	20.4
92.5°	38.3	135.3	267.5	128.8	89.5
95°	87.9	313.6	945.2	483.3	334.4
97.5°	140.4	359.0	1482.4	1238.4	933.9
100°	180.6	377.1	1653.3	1729.8	1435.0
102.5°	219.5	402.5	1709.8	2097.7	1855.8
105°	287.3	447.0	1717.6	2569.7	2411.6
107.5°	351.4	493.8	1644.5	2812.3	2853.1
110°	394.1	529.2	1577.9	2887.6	3036.5



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	439.3	564.6	1513.8	2870.9	3115.6
115°	507.1	620.7	1430.3	2763.7	3126.0
117.5°	569.0	675.5	1365.6	2592.5	2996.0
120°	609.2	712.0	1333.0	2469.7	2884.2
122.5°	644.4	746.0	1309.1	2344.1	2757.3
125°	692.4	795.3	1284.3	2170.7	2554.5
127.5°	738.6	839.9	1268.6	2017.8	2360.4
130°	766.2	867.5	1262.3	1930.2	2231.1
132.5°	793.8	893.9	1256.0	1853.0	2129.3
135°	833.7	930.4	1248.2	1751.2	1983.0
137.5°	871.7	964.4	1244.1	1664.8	1855.2
140°	898.1	987.1	1240.3	1611.6	1783.6
142.5°	925.7	1008.6	1237.8	1562.0	1707.0
145°	964.0	1039.2	1232.5	1497.2	1607.7
147.5°	1005.5	1070.9	1227.2	1442.7	1529.5
150°	1033.1	1089.9	1224.6	1408.4	1480.6
152.5°	1058.2	1107.7	1223.4	1380.5	1439.1
155°	1094.3	1134.2	1221.5	1343.4	1386.4
157.5°	1126.0	1157.1	1221.8	1317.3	1346.2
160°	1146.1	1172.2	1223.1	1302.1	1323.6
162.5°	1163.7	1184.9	1224.3	1289.4	1304.7
165°	1187.0	1200.8	1226.2	1275.0	1281.2
167.5°	1205.8	1213.8	1227.8	1264.0	1266.4
170°	1218.4	1221.4	1227.8	1257.6	1257.6
172.5°	1225.9	1226.5	1229.0	1251.3	1251.3
175°	1234.1	1232.5	1227.8	1245.0	1241.9
177.5°	1237.5	1235.1	1228.7	1238.7	1236.3
180°	1232.5	1232.5	1232.5	1232.5	1232.5

(END OF REPORT)