

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: P564416

Luminaire Tested: **SQ4-PR1-125U-125D-930-1D-UNV-STD-W-8**

Issue Date: 7/30/2021

Test Information

Test Method: LM-79-2019
Report Number: P564416
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1910-536-24, G2-2106-289-4)
Test Lab: INNOVATION CENTER
Issue Date: 7/30/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: CORELITE
Catalog Number: SQ4-PR1-125U-125D-930-1D-UNV-STD-W-8
Description: CORELITE SQ4 SUSPENDED LED LUMINAIRE WITH PERCEIVE RIPPLE CONTINUOUS LENS.
DOWNLIGHT 1250 LUMENS PER FOOT
UPLIGHT 1250 LUMENS PER FOOT
Light Source: 3000K CCT, 90 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

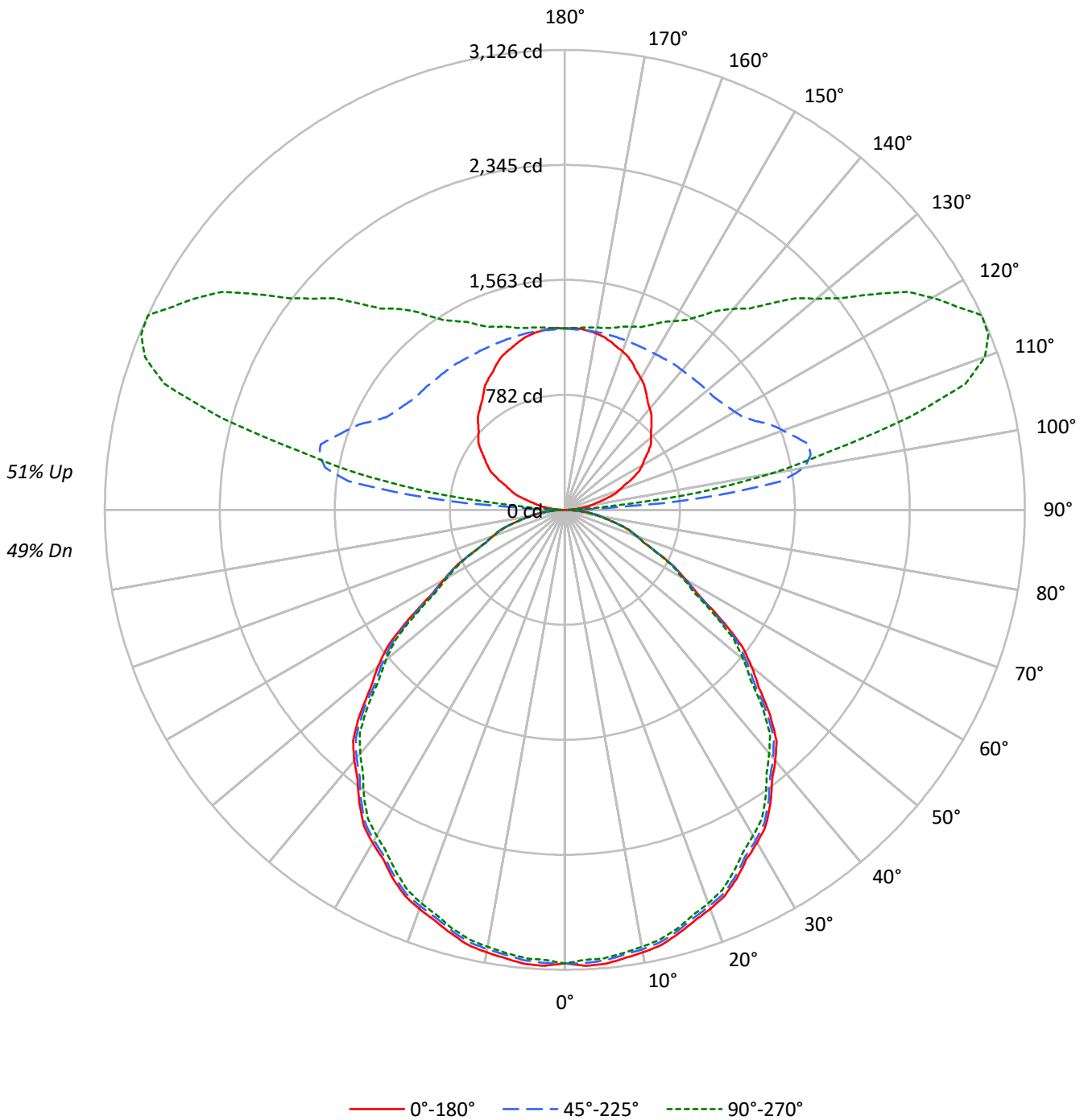
Lumens per Lamp: N/A
Luminaire Lumens: 15666.8 lumens
Efficiency: N/A
Efficacy: 102.6 lumens/watt
Spacing Criteria (0/90/45): 1.26 / 1.24 / 1.35
Luminous Opening: Rectangular (W 0.29' x L: 8' x H: 0')
CIE Type: General Diffuse

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	55	55	55	49				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	61	57	54	51	49	44	42	40				36	
3	82	72	65	60	75	67	61	56	57	52	48	48	44	41	39	37	35				31	
4	75	64	56	51	69	60	53	47	51	46	41	43	39	36	35	32	30				26	
5	69	57	49	43	63	53	46	41	46	40	36	38	34	31	32	29	26				23	
6	63	51	43	38	58	48	41	36	41	36	31	35	30	27	29	26	23				20	
7	59	46	39	33	54	43	36	31	37	32	28	32	27	24	26	23	21				18	
8	54	42	35	29	50	39	33	28	34	29	25	29	25	22	24	21	19				16	
9	51	39	31	26	47	36	29	25	31	26	22	27	22	19	22	19	17				15	
10	47	35	28	23	44	33	27	22	29	23	20	25	20	18	21	18	15				13	

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	14223	14223	14223
5°	14351	14240	14166
10°	14305	14206	14131
15°	14242	14154	14078
20°	14171	14079	13975
25°	14071	13976	13814
30°	13919	13820	13622
35°	13713	13594	13400
40°	13401	13257	13017
45°	12855	12630	12370
50°	11893	11606	11378
55°	10380	10145	9931
60°	8746	8674	8502
65°	7566	7595	7536
70°	6949	6984	6984
75°	6673	6673	6721
80°	6277	6349	6277
85°	5060	5621	5621



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	291.6	1.9
10°-20°	834.2	5.3
20°-30°	1258.2	8.0
30°-40°	1499.1	9.6
40°-50°	1478.0	9.4
50°-60°	1129.6	7.2
60°-70°	699.0	4.5
70°-80°	397.0	2.5
80°-90°	123.7	0.8
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	3.7
160°-170°	349.8	2.2
170°-180°	118.0	0.8
0°-30°	2383.9	15.2
0°-40°	3883.0	24.8
0°-60°	6490.6	41.4
0°-90°	7710.3	49.2
90°-120°	3759.6	24.0
90°-150°	6916.0	44.1
90°-180°	7956.0	50.8
0°-180°	15666.8	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	3083	3083	3083	3083	3083	
5°	3099	3065	3075	3064	3059	294
15°	2982	2951	2964	2953	2948	842
25°	2764	2731	2746	2717	2714	1272
35°	2435	2407	2414	2382	2379	1520
45°	1970	1944	1936	1901	1896	1510
55°	1291	1270	1261	1240	1235	1156
65°	693	688	696	690	690	702
75°	374	374	374	377	377	395
85°	96	101	106	106	106	111
90°	3	9	19	20	20	10
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°	3083.1	3083.1	3083.1	3083.1	3083.1
2.5°	3102.2	3075.2	3083.1	3076.4	3061.9
5°	3099.0	3065.3	3075.1	3064.4	3059.2
7.5°	3075.1	3041.9	3051.8	3041.1	3038.0
10°	3053.9	3022.7	3032.6	3021.9	3016.7
12.5°	3030.5	2997.3	3009.3	2996.4	2991.2
15°	2982.2	2951.0	2963.6	2952.9	2947.7
17.5°	2929.1	2895.8	2908.4	2896.0	2889.2
20°	2886.6	2855.4	2868.0	2849.3	2846.8
22.5°	2839.8	2808.7	2821.3	2796.3	2795.8
25°	2764.4	2730.7	2745.8	2716.6	2714.0
27.5°	2674.7	2643.5	2656.1	2626.3	2623.2
30°	2613.1	2581.9	2594.5	2562.5	2557.3
32.5°	2543.0	2513.9	2524.4	2492.4	2489.3
35°	2435.1	2406.6	2413.9	2382.0	2379.4
37.5°	2312.5	2286.5	2290.7	2255.6	2253.0
40°	2225.4	2199.4	2201.5	2164.2	2161.6
42.5°	2129.8	2103.8	2101.6	2064.4	2061.8
45°	1970.4	1944.5	1935.9	1901.3	1896.1
47.5°	1788.8	1762.8	1746.8	1718.6	1715.0
50°	1657.1	1631.1	1617.2	1593.2	1585.4
52.5°	1514.7	1488.8	1477.0	1455.1	1447.3
55°	1290.6	1269.8	1261.4	1240.0	1234.8
57.5°	1077.6	1063.6	1061.2	1040.4	1038.3
60°	948.0	940.2	940.1	921.5	921.5
62.5°	837.6	831.8	836.0	823.7	821.6
65°	693.1	687.9	695.8	690.4	690.4
67.5°	578.9	578.9	583.7	581.6	581.6
70°	515.2	515.2	517.8	517.8	517.8
72.5°	457.8	455.7	462.6	462.6	460.5
75°	374.4	374.4	374.4	377.1	377.1
77.5°	291.6	292.1	294.2	293.7	291.6
80°	236.3	238.9	239.0	236.3	236.3
82.5°	181.1	183.7	183.8	183.2	181.1
85°	95.6	100.8	106.2	106.2	106.2
87.5°	28.2	37.8	46.3	46.5	44.4
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	<i>3115.6</i>
115°	<i>507.1</i>	<i>620.7</i>	<i>1430.3</i>	<i>2763.7</i>	<i>3126.0</i>
117.5°	569.0	675.5	1365.6	2592.5	<i>2996.0</i>
120°	609.2	712.0	1333.0	2469.7	<i>2884.2</i>
122.5°	644.4	746.0	1309.1	2344.1	<i>2757.3</i>
125°	692.4	795.3	1284.3	2170.7	<i>2554.5</i>
127.5°	738.6	839.9	1268.6	2017.8	<i>2360.4</i>
130°	766.2	867.5	1262.3	1930.2	<i>2231.1</i>
132.5°	793.8	893.9	1256.0	1853.0	<i>2129.3</i>
135°	833.7	930.4	1248.2	1751.2	<i>1983.0</i>
137.5°	871.7	964.4	1244.1	1664.8	<i>1855.2</i>
140°	898.1	987.1	1240.3	1611.6	<i>1783.6</i>
142.5°	925.7	1008.6	1237.8	1562.0	<i>1707.0</i>
145°	964.0	1039.2	1232.5	1497.2	<i>1607.7</i>
147.5°	1005.5	1070.9	1227.2	1442.7	<i>1529.5</i>
150°	1033.1	1089.9	1224.6	1408.4	<i>1480.6</i>
152.5°	1058.2	1107.7	1223.4	1380.5	<i>1439.1</i>
155°	1094.3	1134.2	1221.5	1343.4	<i>1386.4</i>
157.5°	1126.0	1157.1	1221.8	1317.3	<i>1346.2</i>
160°	1146.1	1172.2	1223.1	1302.1	<i>1323.6</i>
162.5°	1163.7	1184.9	1224.3	1289.4	<i>1304.7</i>
165°	1187.0	1200.8	1226.2	1275.0	<i>1281.2</i>
167.5°	1205.8	1213.8	1227.8	1264.0	<i>1266.4</i>
170°	1218.4	1221.4	1227.8	1257.6	<i>1257.6</i>
172.5°	1225.9	1226.5	1229.0	1251.3	<i>1251.3</i>
175°	1234.1	1232.5	1227.8	1245.0	<i>1241.9</i>
177.5°	1237.5	1235.1	1228.7	1238.7	<i>1236.3</i>
180°	1232.5	1232.5	1232.5	1232.5	<i>1232.5</i>

(END OF REPORT)