

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: P565016

Luminaire Tested: **SQ4-PW1-125U-050D-930-1D-UNV-STD-W-8**

Issue Date: 7/30/2021

Test Information

Test Method: LM-79-2019
Report Number: P565016
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1910-536-24, 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-050D-930-1D-UNV-STD-W-8
Description: CORELITE SQ4 SUSPENDED LED LUMINAIRE WITH PERCEIVE WAVES CONTINUOUS LENS.
DOWNLIGHT 500 LUMENS PER FOOT
UPLIGHT 1250 LUMENS PER FOOT
Light Source: 3000K CCT, 90 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

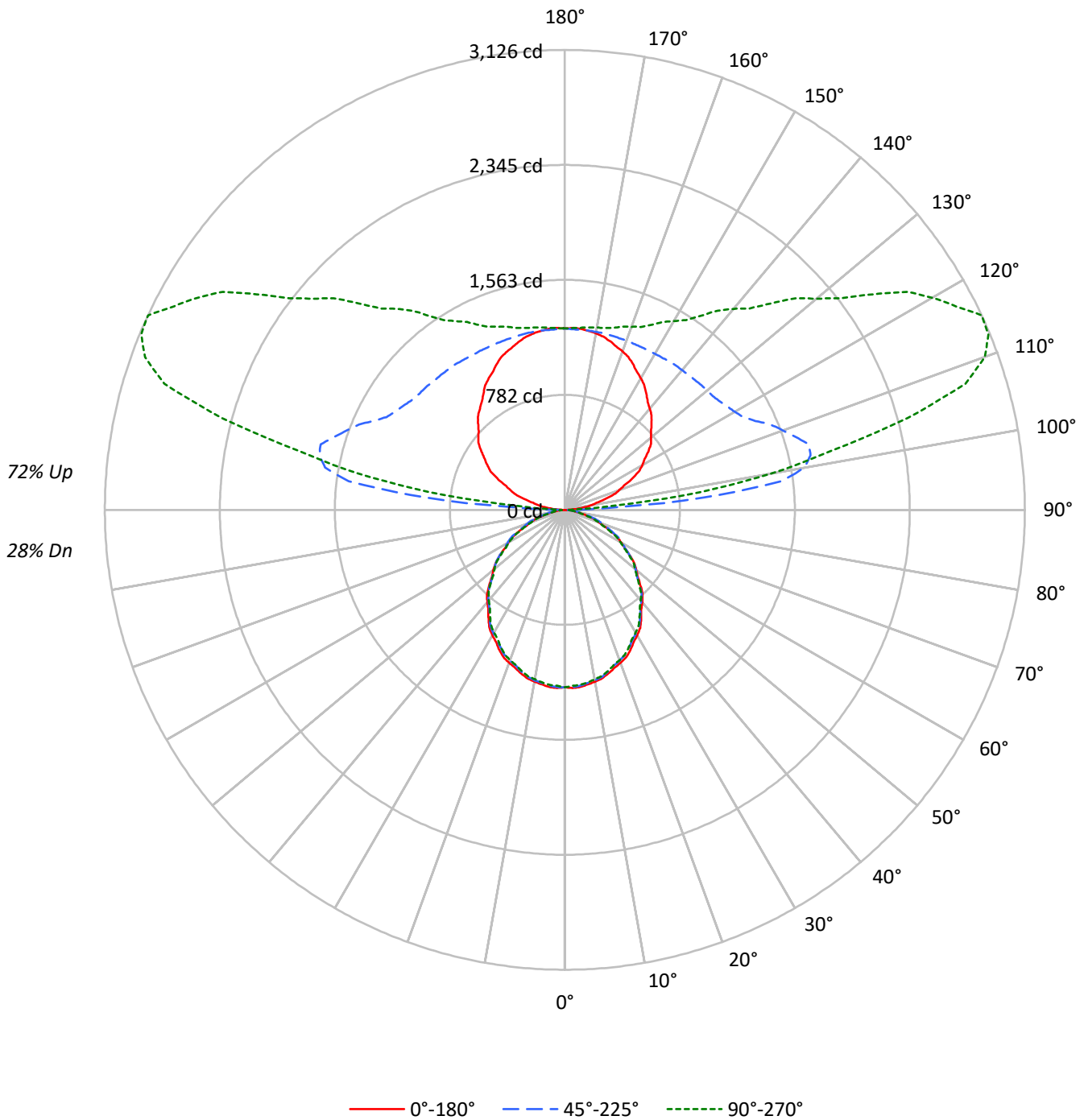
Lumens per Lamp: N/A
Luminaire Lumens: 11027.9 lumens
Efficiency: N/A
Efficacy: 113.9 lumens/watt
Spacing Criteria (0/90/45): 1.22 / 1.19 / 1.31
Luminous Opening: Rectangular (W 0.29' x L: 8' x H: 0')
CIE Type: Semi-Indirect

Input Watts (W): 96.8
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	102	102	102	102	91	91	91	91	71	71	71	53	53	53	36	36	36	28
1	93	89	85	82	83	79	76	74	62	60	58	46	45	44	32	31	30	24
2	85	77	72	67	75	69	65	60	55	51	48	41	39	37	28	27	26	20
3	77	68	61	55	69	61	55	50	48	44	41	36	33	31	25	23	22	17
4	70	60	53	47	63	54	48	43	43	38	34	32	29	26	22	20	19	14
5	65	53	46	40	58	48	41	36	38	33	30	29	25	23	20	18	16	13
6	59	48	40	34	53	43	36	31	34	29	26	26	22	20	18	16	14	11
7	55	43	35	30	49	39	32	27	31	26	22	23	20	18	16	14	13	10
8	51	39	31	26	45	35	29	24	28	23	20	21	18	16	15	13	11	9
9	47	35	28	23	42	32	26	21	26	21	18	20	16	14	14	12	10	8
10	44	32	25	21	39	29	23	19	23	19	16	18	15	12	13	11	9	7

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	5563	5563	5563
5°	5599	5555	5531
10°	5555	5510	5480
15°	5496	5435	5415
20°	5431	5347	5336
25°	5355	5257	5241
30°	5242	5162	5128
35°	5093	5021	4991
40°	4934	4857	4837
45°	4742	4680	4659
50°	4545	4507	4476
55°	4333	4333	4264
60°	4069	4147	4000
65°	3723	3909	3631
70°	3282	3597	3197
75°	2804	3219	2727
80°	2173	2710	2202
85°	1408	2080	1858



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	113.6	1.0
10°-20°	320.6	2.9
20°-30°	475.6	4.3
30°-40°	556.5	5.0
40°-50°	554.0	5.0
50°-60°	478.4	4.3
60°-70°	344.4	3.1
70°-80°	180.6	1.6
80°-90°	47.7	0.4
90°-100°	576.6	5.2
100°-110°	1553.1	14.1
110°-120°	1629.9	14.8
120°-130°	1322.7	12.0
130°-140°	1037.3	9.4
140°-150°	796.4	7.2
150°-160°	572.6	5.2
160°-170°	349.8	3.2
170°-180°	118.0	1.1
0°-30°	909.8	8.3
0°-40°	1466.3	13.3
0°-60°	2498.8	22.7
0°-90°	3071.4	27.9
90°-120°	3759.6	34.1
90°-150°	6916.0	62.7
90°-180°	7956.0	72.1
0°-180°	11027.9	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1206	1206	1206	1206	1206	
5°	1209	1196	1200	1196	1194	115
15°	1151	1136	1138	1136	1134	324
25°	1052	1034	1033	1026	1030	484
35°	904	892	892	883	886	565
45°	727	721	717	715	714	561
55°	539	538	539	531	530	481
65°	341	352	358	344	333	338
75°	157	172	181	169	153	169
85°	27	35	39	37	35	35
90°	3	9	19	20	20	7
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°	1206.0	1206.0	1206.0	1206.0	1206.0
2.5°	1212.8	1202.9	1206.0	1203.4	1197.5
5°	1209.2	1195.7	1199.7	1196.4	1194.4
7.5°	1196.9	1184.4	1187.3	1183.9	1182.7
10°	1185.9	1173.4	1176.3	1172.0	1169.9
12.5°	1173.1	1159.8	1162.7	1158.4	1157.2
15°	1150.8	1136.2	1138.0	1135.9	1133.8
17.5°	1124.9	1110.1	1110.4	1107.0	1106.6
20°	1106.2	1090.6	1089.2	1085.0	1087.0
22.5°	1085.8	1069.3	1067.9	1062.0	1064.9
25°	1052.0	1034.3	1032.8	1026.5	1029.7
27.5°	1012.9	995.4	995.4	986.6	989.9
30°	984.0	967.3	969.1	958.6	962.7
32.5°	953.4	938.4	939.3	928.8	933.0
35°	904.3	891.8	891.5	883.1	886.2
37.5°	854.1	843.1	841.4	836.5	837.3
40°	819.3	809.9	806.5	803.3	803.3
42.5°	782.7	774.2	770.8	768.5	767.6
45°	726.8	720.6	717.3	715.1	714.1
47.5°	671.6	665.7	662.8	661.3	660.3
50°	633.3	629.2	628.0	624.8	623.7
52.5°	595.1	592.6	591.4	587.4	586.3
55°	538.7	537.7	538.7	531.3	530.2
57.5°	480.1	481.7	485.2	475.1	472.6
60°	441.0	445.1	449.5	437.7	433.5
62.5°	401.0	407.7	413.8	400.3	394.4
65°	341.1	351.5	358.1	344.0	332.6
67.5°	283.3	296.2	304.1	288.9	276.1
70°	243.3	257.9	266.7	251.5	237.0
72.5°	208.5	224.7	231.9	217.5	203.0
75°	157.3	171.8	180.6	168.6	153.0
77.5°	111.6	125.3	132.6	122.1	109.2
80°	81.8	96.4	102.0	93.3	82.9
82.5°	58.0	70.1	74.0	68.7	61.6
85°	26.6	34.9	39.3	37.1	35.1
87.5°	7.4	14.5	19.9	20.3	21.1
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)