

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: P563846

Luminaire Tested: **SQ4-PP3-150U-125D-940-1D-UNV-STD-W-4**

Issue Date: 7/30/2021

Test Information

Test Method: LM-79-2019
Report Number: P563846
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1910-536-25, 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-PP3-150U-125D-940-1D-UNV-STD-W-4
Description: CORELITE SQ4 SUSPENDED LED LUMINAIRE WITH PERCEIVE PRISM CONTINUOUS LENS.
DOWNLIGHT 1250 LUMENS PER FOOT
UPLIGHT 1500 LUMENS PER FOOT
Light Source: 4000K CCT, 90 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

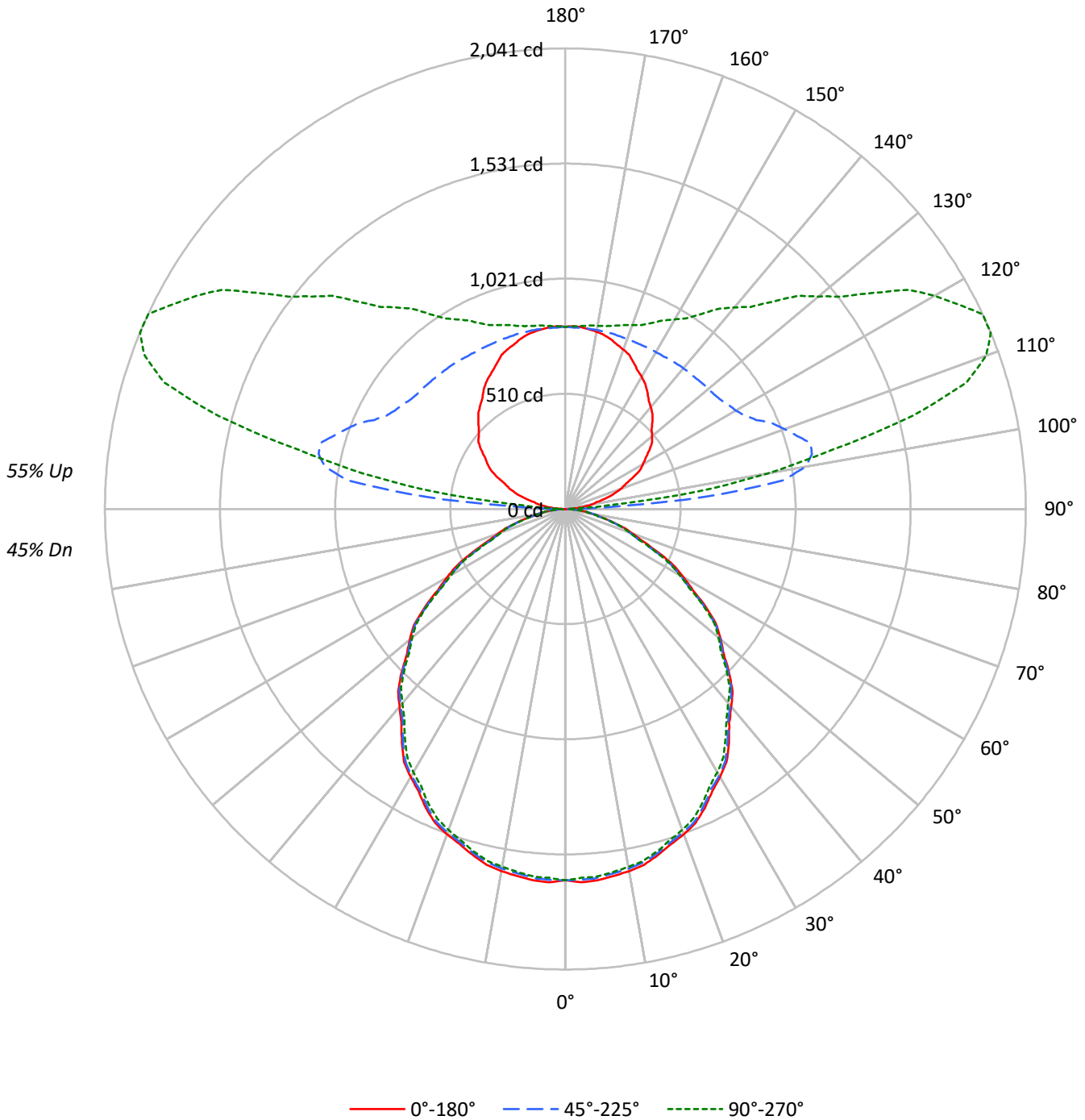
Lumens per Lamp: N/A
Luminaire Lumens: 9420.7 lumens
Efficiency: N/A
Efficacy: 113.4 lumens/watt
Spacing Criteria (0/90/45): 1.24 / 1.22 / 1.33
Luminous Opening: Rectangular (W 0.29' x L: 4' x H: 0')
CIE Type: General Diffuse

Input Watts (W): 83.1
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



TEST NUMBER: P563846
CATALOG NUMBER: SQ4-PP3-150U-125D-940-1D-UNV-STD-W-4

Luminous Intensity Polar Plot





TEST NUMBER: P563846

CATALOG NUMBER: SQ4-PP3-150U-125D-940-1D-UNV-STD-W-4

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	106	106	106	106	97	97	97	97	80	80	80	65	65	65	51	51	51	45
1	97	93	89	85	89	85	82	79	71	68	66	58	56	55	46	45	44	38
2	88	81	75	70	81	74	69	65	62	58	55	51	48	46	40	39	37	32
3	81	71	64	58	74	66	59	54	55	50	47	45	42	39	36	34	32	27
4	74	63	55	49	67	58	51	46	49	44	40	40	36	33	32	29	27	24
5	68	56	48	42	62	52	45	40	44	38	34	36	32	29	29	26	24	20
6	62	50	42	37	57	47	40	34	39	34	30	33	28	25	26	23	21	18
7	58	45	38	32	53	42	35	30	36	30	26	30	25	22	24	21	19	16
8	53	41	34	28	49	38	31	27	32	27	23	27	23	20	22	19	17	14
9	50	38	30	25	46	35	28	24	30	25	21	25	21	18	20	17	15	13
10	46	34	27	23	43	32	26	21	27	22	19	23	19	16	19	16	14	12

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	15181	15181	15181
5°	15292	15199	15146
10°	15267	15158	15091
15°	15166	15083	15001
20°	15065	14981	14867
25°	14886	14783	14637
30°	14610	14534	14349
35°	14229	14131	13953
40°	13773	13687	13530
45°	13398	13304	13172
50°	12917	12833	12710
55°	12247	12085	11993
60°	11149	10830	10778
65°	9822	9414	9381
70°	8481	8130	8130
75°	7301	7197	7094
80°	6434	6514	6360
85°	5039	5494	5494



TEST NUMBER: P563846

CATALOG NUMBER: SQ4-PP3-150U-125D-940-1D-UNV-STD-W-4

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	155.6	1.7
10°-20°	444.3	4.7
20°-30°	665.5	7.1
30°-40°	780.5	8.3
40°-50°	783.0	8.3
50°-60°	668.0	7.1
60°-70°	435.6	4.6
70°-80°	218.6	2.3
80°-90°	62.2	0.7
90°-100°	375.4	4.0
100°-110°	1014.9	10.8
110°-120°	1067.1	11.3
120°-130°	866.7	9.2
130°-140°	679.9	7.2
140°-150°	521.8	5.5
150°-160°	375.3	4.0
160°-170°	229.3	2.4
170°-180°	77.3	0.8
0°-30°	1265.3	13.4
0°-40°	2045.9	21.7
0°-60°	3496.8	37.1
0°-90°	4213.1	44.7
90°-120°	2457.4	26.1
90°-150°	4525.8	48.0
90°-180°	5208.0	55.3
0°-180°	9420.7	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1645	1645	1645	1645	1645	
5°	1651	1636	1641	1635	1635	157
15°	1588	1572	1579	1573	1570	448
25°	1462	1445	1452	1439	1438	672
35°	1263	1251	1255	1240	1239	789
45°	1027	1020	1020	1010	1010	791
55°	761	759	751	747	746	677
65°	450	442	431	428	430	449
75°	205	205	202	200	199	222
85°	48	52	52	52	52	56
90°	2	5	11	12	11	6
95°	58	204	624	323	192	61
105°	189	292	1126	1661	1593	199
115°	332	406	934	1808	2041	328
125°	455	521	842	1420	1668	405
135°	545	610	819	1147	1298	421
145°	634	681	808	982	1056	397
155°	716	744	801	880	909	330
165°	779	787	804	836	840	219
175°	809	808	805	816	814	77
180°	808	808	808	808	808	



TEST NUMBER: P563846

CATALOG NUMBER: SQ4-PP3-150U-125D-940-1D-UNV-STD-W-4

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1645.4	1645.4	1645.4	1645.4	1645.4
2.5°	1655.8	1642.3	1645.4	1643.0	1636.2
5°	1651.2	1635.7	1641.1	1635.4	1635.4
7.5°	1640.0	1623.0	1628.4	1622.7	1622.4
10°	1629.6	1612.7	1618.0	1612.2	1610.8
12.5°	1614.6	1597.7	1604.2	1597.3	1597.0
15°	1587.8	1572.3	1579.1	1573.3	1570.5
17.5°	1557.5	1540.6	1548.8	1540.7	1539.6
20°	1534.4	1517.5	1525.8	1514.2	1514.2
22.5°	1506.7	1489.8	1499.2	1484.2	1484.2
25°	1462.3	1445.4	1452.2	1439.2	1437.8
27.5°	1409.5	1392.9	1400.0	1385.3	1385.0
30°	1371.4	1355.9	1364.2	1348.3	1346.9
32.5°	1329.9	1315.5	1321.6	1305.7	1304.2
35°	1263.3	1250.6	1254.6	1240.2	1238.8
37.5°	1193.2	1180.2	1184.8	1172.4	1171.9
40°	1143.6	1135.1	1136.4	1126.2	1123.4
42.5°	1097.4	1087.9	1089.1	1079.0	1078.4
45°	1026.8	1019.7	1019.6	1009.5	1009.5
47.5°	951.8	946.4	944.9	936.5	936.2
50°	899.9	895.6	894.1	886.9	885.5
52.5°	845.7	843.7	838.7	832.7	832.4
55°	761.4	758.6	751.3	747.0	745.6
57.5°	670.0	664.4	656.2	649.8	651.0
60°	604.2	598.6	586.9	584.1	584.1
62.5°	540.8	534.0	522.3	518.3	520.6
65°	449.9	441.5	431.2	428.3	429.7
67.5°	367.5	359.8	348.7	348.7	347.5
70°	314.4	310.2	301.4	301.4	301.4
72.5°	267.1	265.1	258.7	258.7	257.6
75°	204.8	204.8	201.9	200.4	199.0
77.5°	153.4	154.0	152.6	151.1	148.5
80°	121.1	124.0	122.6	121.1	119.7
82.5°	91.1	94.0	93.7	91.1	90.9
85°	47.6	51.8	51.9	51.9	51.9
87.5°	13.0	18.2	20.7	20.9	21.9
90°	1.7	5.1	11.3	12.2	11.3
92.5°	24.7	90.0	177.5	77.1	55.8
95°	58.3	204.5	624.3	323.1	192.1
97.5°	93.6	234.5	973.1	805.3	591.4
100°	120.0	246.6	1081.6	1128.0	912.0
102.5°	144.3	263.5	1119.8	1372.6	1211.1
105°	188.7	291.5	1125.9	1660.8	1592.8
107.5°	229.7	323.6	1076.7	1840.6	1863.2
110°	261.7	346.7	1032.9	1888.9	1984.9



TEST NUMBER: P563846

CATALOG NUMBER: SQ4-PP3-150U-125D-940-1D-UNV-STD-W-4

CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	290.2	369.8	992.6	1879.2	2040.6
115°	332.1	406.1	933.8	1807.6	2040.6
117.5°	373.2	442.5	895.0	1698.3	1962.3
120°	398.2	466.2	872.0	1619.8	1889.3
122.5°	421.9	488.5	858.1	1535.7	1807.2
125°	454.7	521.0	841.6	1420.2	1668.5
127.5°	485.0	550.1	831.9	1326.0	1544.3
130°	501.7	568.8	827.7	1267.8	1465.0
132.5°	519.1	585.5	823.5	1215.3	1396.8
135°	545.1	609.7	819.0	1146.7	1298.1
137.5°	571.4	632.4	815.2	1091.2	1214.4
140°	589.5	646.4	813.8	1055.4	1165.0
142.5°	606.9	660.4	811.0	1023.1	1119.1
145°	633.8	681.4	807.7	981.6	1056.4
147.5°	658.3	700.5	803.9	944.0	1001.4
150°	676.4	713.8	802.5	923.5	969.4
152.5°	693.1	725.8	801.8	904.6	942.3
155°	715.5	743.6	800.8	880.5	909.4
157.5°	738.8	758.4	800.9	863.8	882.8
160°	752.1	768.2	801.6	853.2	866.8
162.5°	762.5	775.9	802.3	844.8	855.0
165°	779.0	786.7	804.2	835.6	839.9
167.5°	790.3	795.6	804.4	827.8	829.8
170°	797.3	799.8	805.1	824.2	824.2
172.5°	802.8	803.3	805.1	820.0	819.4
175°	808.6	807.7	805.1	815.5	813.8
177.5°	810.5	808.4	804.9	811.8	809.8
180°	807.7	807.7	807.7	807.7	807.7

(END OF REPORT)