

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: P564486

Luminaire Tested: **SQ4-PR1-150U-100D-930-1D-UNV-STD-W-4**

Issue Date: 7/30/2021

Test Information

Test Method: LM-79-2019
Report Number: P564486
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1910-536-25, 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-PR1-150U-100D-930-1D-UNV-STD-W-4
Description: CORELITE SQ4 SUSPENDED LED LUMINAIRE WITH PERCEIVE RIPPLE CONTINUOUS LENS.
DOWNLIGHT 1000 LUMENS PER FOOT
UPLIGHT 1500 LUMENS PER FOOT
Light Source: 3000K CCT, 90 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

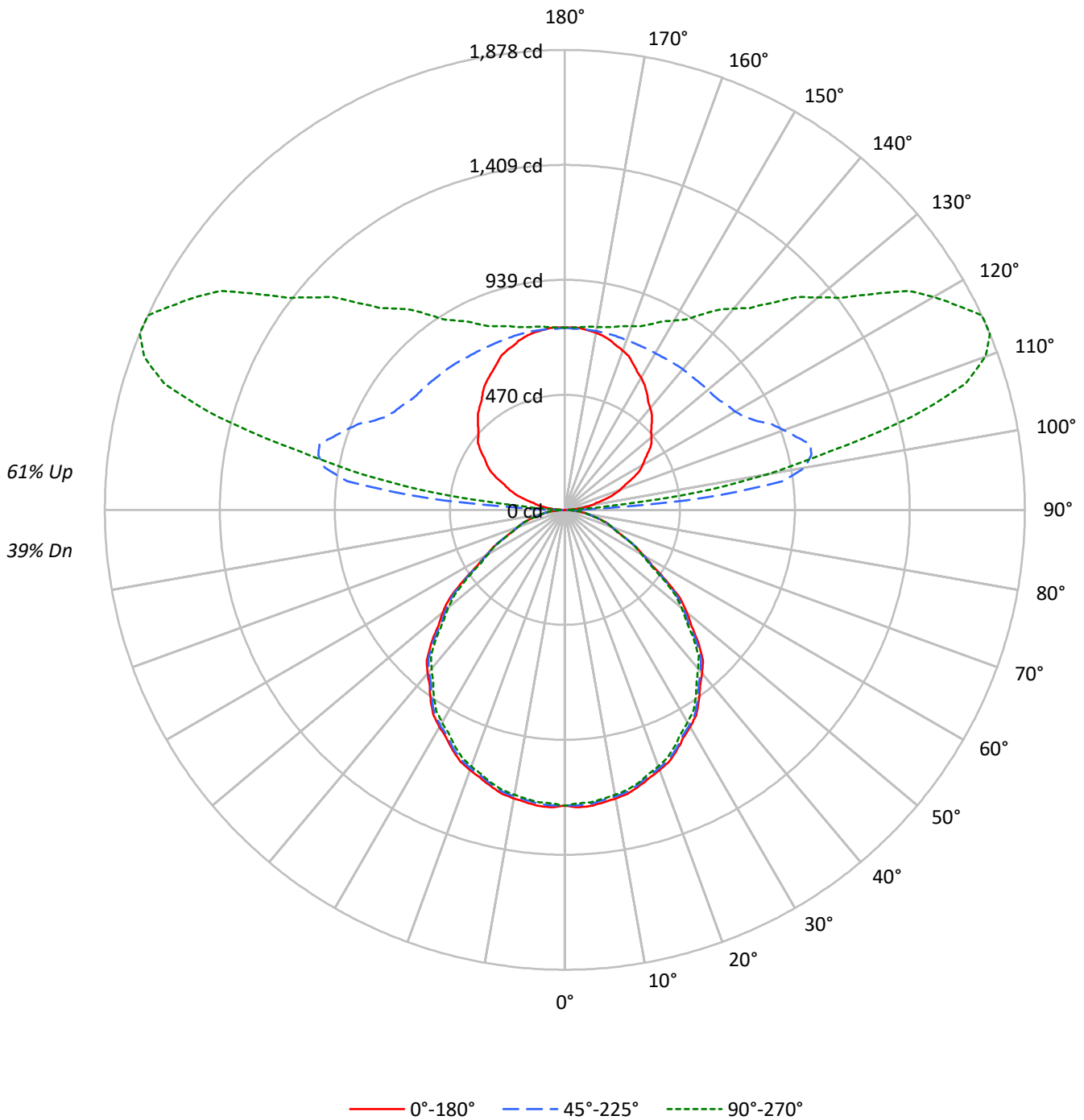
Lumens per Lamp: N/A
Luminaire Lumens: 7814.9 lumens
Efficiency: N/A
Efficacy: 108.1 lumens/watt
Spacing Criteria (0/90/45): 1.26 / 1.24 / 1.35
Luminous Opening: Rectangular (W 0.29' x L: 4' x H: 0')
CIE Type: Semi-Indirect

Input Watts (W): 72.3
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: P564486
CATALOG NUMBER: SQ4-PR1-150U-100D-930-1D-UNV-STD-W-4

Luminous Intensity Polar Plot





TEST NUMBER: P564486

CATALOG NUMBER: SQ4-PR1-150U-100D-930-1D-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	104	104	104	104	95	95	95	95	77	77	77	61	61	61	46	46	46	39
1	95	91	88	84	87	83	80	77	68	66	64	54	52	51	41	40	39	33
2	87	80	74	69	79	73	68	64	60	56	53	47	45	43	36	35	33	28
3	80	70	63	58	72	64	58	53	53	48	45	42	39	36	32	30	28	24
4	73	62	55	49	66	57	50	45	47	42	38	38	34	31	29	27	25	21
5	67	56	48	42	61	51	44	39	42	37	33	34	30	27	26	24	22	18
6	62	50	42	36	56	46	39	34	38	33	29	31	27	24	24	21	19	16
7	57	45	37	32	52	41	34	30	34	29	25	28	24	21	22	19	17	14
8	53	41	33	28	48	37	31	26	31	26	22	25	22	19	20	17	15	13
9	49	37	30	25	45	34	28	23	29	24	20	23	20	17	18	16	14	11
10	46	34	27	22	42	31	25	21	26	21	18	21	18	15	17	14	12	10

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	11145	11145	11145
5°	11245	11159	11101
10°	11209	11132	11074
15°	11160	11091	11031
20°	11105	11033	10951
25°	11026	10952	10825
30°	10907	10829	10675
35°	10746	10653	10501
40°	10501	10388	10200
45°	10073	9897	9693
50°	9320	9094	8916
55°	8134	7949	7782
60°	6853	6796	6661
65°	5929	5951	5905
70°	5446	5473	5473
75°	5229	5229	5265
80°	4920	4973	4920
85°	3970	4404	4404



TEST NUMBER: P564486

CATALOG NUMBER: SQ4-PR1-150U-100D-930-1D-UNV-STD-W-4

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	114.2	1.5
10°-20°	326.8	4.2
20°-30°	493.0	6.3
30°-40°	587.4	7.5
40°-50°	579.1	7.4
50°-60°	442.6	5.7
60°-70°	273.9	3.5
70°-80°	155.5	2.0
80°-90°	48.9	0.6
90°-100°	345.5	4.4
100°-110°	934.2	12.0
110°-120°	982.2	12.6
120°-130°	797.8	10.2
130°-140°	625.8	8.0
140°-150°	480.3	6.1
150°-160°	345.4	4.4
160°-170°	211.0	2.7
170°-180°	71.1	0.9
0°-30°	934.0	12.0
0°-40°	1521.4	19.5
0°-60°	2543.1	32.5
0°-90°	3021.4	38.7
90°-120°	2262.0	28.9
90°-150°	4166.0	53.3
90°-180°	4794.0	61.3
0°-180°	7814.9	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1208	1208	1208	1208	1208	
5°	1214	1201	1205	1201	1199	115
15°	1168	1156	1161	1157	1155	330
25°	1083	1070	1076	1064	1063	498
35°	954	943	946	933	932	595
45°	772	762	758	745	743	591
55°	506	498	494	486	484	453
65°	272	270	273	270	270	275
75°	147	147	147	148	148	155
85°	38	40	42	42	42	44
90°	2	5	10	11	10	5
95°	54	188	575	297	177	56
105°	174	268	1036	1529	1466	183
115°	306	374	860	1664	1878	302
125°	419	480	775	1307	1536	373
135°	502	561	754	1056	1195	388
145°	583	627	744	904	972	365
155°	659	684	737	810	837	304
165°	717	724	740	769	773	202
175°	744	744	741	751	749	71
180°	744	744	744	744	744	



TEST NUMBER: P564486

CATALOG NUMBER: SQ4-PR1-150U-100D-930-1D-UNV-STD-W-4

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1208.0	1208.0	1208.0	1208.0	1208.0
2.5°	1215.5	1204.9	1208.0	1205.4	1199.7
5°	1214.2	1201.0	1204.9	1200.7	1198.6
7.5°	1204.9	1191.8	1195.7	1191.5	1190.3
10°	1196.5	1184.3	1188.2	1184.0	1182.0
12.5°	1187.4	1174.4	1179.1	1174.0	1172.0
15°	1168.4	1156.2	1161.2	1157.0	1154.9
17.5°	1147.6	1134.6	1139.5	1134.7	1132.0
20°	1131.0	1118.8	1123.7	1116.4	1115.4
22.5°	1112.7	1100.5	1105.4	1095.6	1095.4
25°	1083.1	1069.9	1075.8	1064.4	1063.4
27.5°	1048.0	1035.8	1040.7	1029.0	1027.8
30°	1023.8	1011.6	1016.5	1004.0	1002.0
32.5°	996.4	985.0	989.1	976.6	975.3
35°	954.1	942.9	945.8	933.3	932.3
37.5°	906.0	895.9	897.5	883.8	882.7
40°	871.9	861.7	862.5	848.0	846.9
42.5°	834.5	824.3	823.4	808.8	807.8
45°	772.0	761.9	758.5	744.9	742.9
47.5°	700.9	690.7	684.4	673.4	671.9
50°	649.3	639.1	633.6	624.2	621.2
52.5°	593.5	583.3	578.7	570.1	567.1
55°	505.7	497.5	494.2	485.9	483.8
57.5°	422.2	416.7	415.8	407.6	406.8
60°	371.4	368.4	368.3	361.0	361.0
62.5°	328.2	325.9	327.5	322.7	321.9
65°	271.6	269.5	272.6	270.5	270.5
67.5°	226.8	226.8	228.7	227.9	227.9
70°	201.9	201.9	202.9	202.9	202.9
72.5°	179.4	178.6	181.2	181.2	180.4
75°	146.7	146.7	146.7	147.7	147.7
77.5°	114.2	114.4	115.3	115.1	114.2
80°	92.6	93.6	93.6	92.6	92.6
82.5°	71.0	72.0	72.0	71.8	71.0
85°	37.5	39.5	41.6	41.6	41.6
87.5°	11.1	15.0	18.7	18.9	17.9
90°	1.6	4.7	10.4	11.2	10.4
92.5°	22.7	82.8	163.4	70.9	51.4
95°	53.6	188.2	574.6	297.4	176.9
97.5°	86.1	215.9	895.7	741.3	544.4
100°	110.4	227.0	995.6	1038.3	839.5
102.5°	132.9	242.6	1030.8	1263.5	1114.8
105°	173.7	268.4	1036.4	1528.8	1466.2
107.5°	211.4	297.8	991.1	1694.3	1715.1
110°	240.9	319.1	950.8	1738.7	1827.1



TEST NUMBER: P564486

CATALOG NUMBER: SQ4-PR1-150U-100D-930-1D-UNV-STD-W-4

CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	267.1	340.4	913.6	1729.8	1878.3
115°	305.7	373.8	859.5	1663.9	1878.3
117.5°	343.5	407.4	823.8	1563.3	1806.3
120°	366.5	429.1	802.7	1491.0	1739.1
122.5°	388.3	449.7	789.9	1413.6	1663.5
125°	418.6	479.6	774.7	1307.3	1535.8
127.5°	446.4	506.4	765.7	1220.6	1421.5
130°	461.8	523.6	761.9	1167.0	1348.5
132.5°	477.8	539.0	758.1	1118.6	1285.8
135°	501.8	561.3	753.9	1055.6	1194.9
137.5°	526.0	582.2	750.4	1004.4	1117.9
140°	542.6	595.0	749.1	971.5	1072.4
142.5°	558.6	607.9	746.5	941.7	1030.2
145°	583.4	627.3	743.5	903.5	972.4
147.5°	606.0	644.8	740.0	868.9	921.8
150°	622.6	657.1	738.7	850.1	892.4
152.5°	638.0	668.1	738.1	832.6	867.4
155°	658.7	684.5	737.1	810.5	837.1
157.5°	680.1	698.1	737.3	795.1	812.6
160°	692.3	707.1	737.9	785.4	797.9
162.5°	701.9	714.2	738.5	777.6	787.0
165°	717.1	724.1	740.3	769.2	773.1
167.5°	727.5	732.3	740.5	761.9	763.8
170°	733.9	736.2	741.1	758.7	758.7
172.5°	739.0	739.5	741.1	754.8	754.2
175°	744.3	743.5	741.1	750.7	749.1
177.5°	746.1	744.2	740.9	747.3	745.4
180°	743.5	743.5	743.5	743.5	743.5

(END OF REPORT)