

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: P564426

Luminaire Tested: **SQ4-PR1-150U-050D-830-1D-UNV-STD-W-4**

Issue Date: 7/30/2021

Test Information

Test Method: LM-79-2019
Report Number: P564426
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-050D-830-1D-UNV-STD-W-4
Description: CORELITE SQ4 SUSPENDED LED LUMINAIRE WITH PERCEIVE RIPPLE CONTINUOUS LENS.
DOWNLIGHT 500 LUMENS PER FOOT
UPLIGHT 1500 LUMENS PER FOOT
Light Source: 3000K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

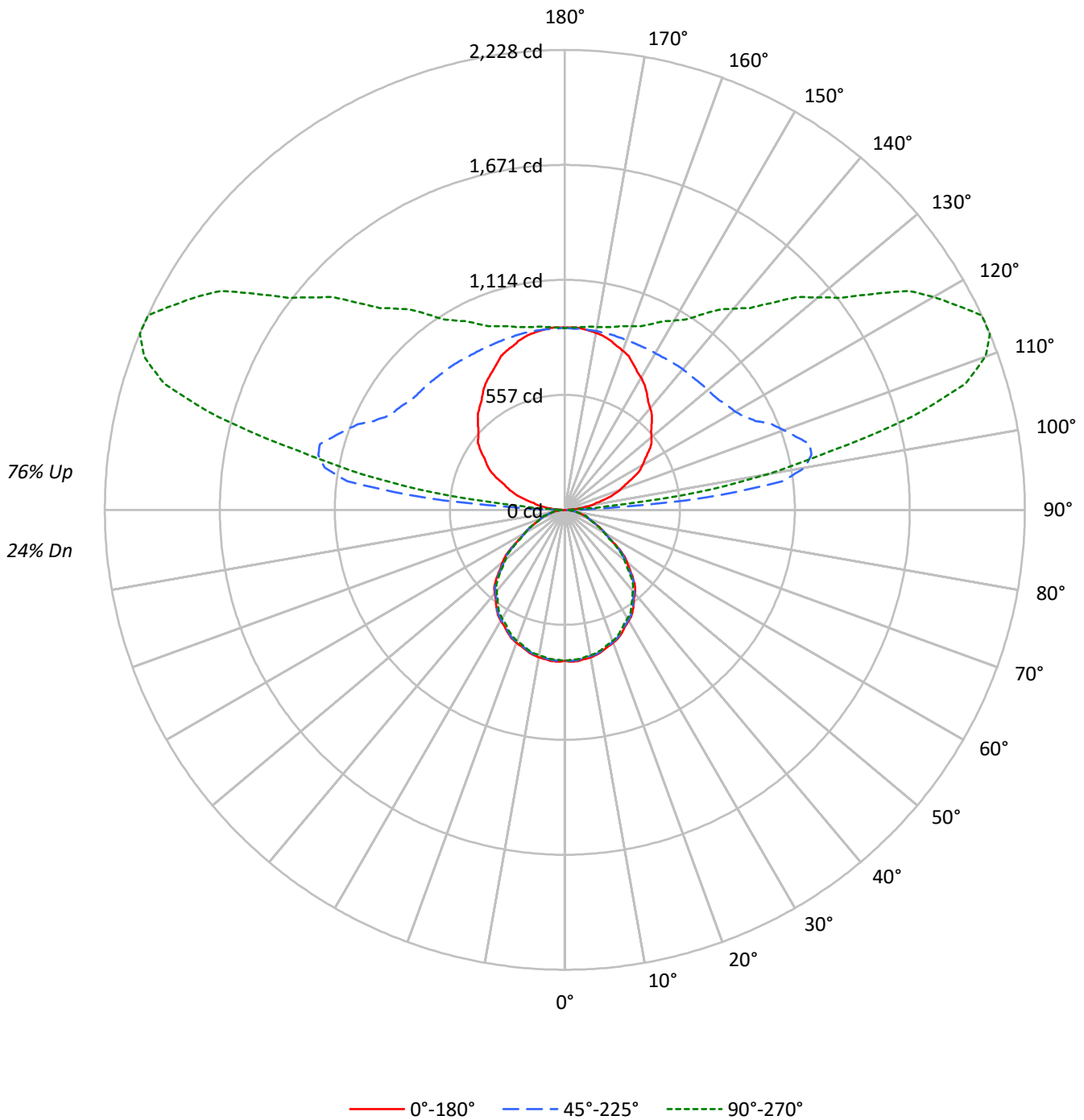
Lumens per Lamp: N/A
Luminaire Lumens: 7516.9 lumens
Efficiency: N/A
Efficacy: 135.0 lumens/watt
Spacing Criteria (0/90/45): 1.26 / 1.24 / 1.35
Luminous Opening: Rectangular (W 0.29' x L: 4' x H: 0')
CIE Type: Semi-Indirect

Input Watts (W): 55.7
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



TEST NUMBER: P564426
CATALOG NUMBER: SQ4-PR1-150U-050D-830-1D-UNV-STD-W-4

Luminous Intensity Polar Plot





TEST NUMBER: P564426

CATALOG NUMBER: SQ4-PR1-150U-050D-830-1D-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	101	101	101	101	90	90	90	90	69	69	69	50	50	50	33	33	33	24
1	92	88	84	81	82	78	75	73	61	59	57	44	43	42	29	28	28	21
2	84	77	71	66	75	69	64	60	53	50	47	39	37	35	26	25	24	18
3	77	68	61	55	68	61	55	50	47	43	40	34	32	30	23	21	20	15
4	70	60	52	47	62	54	47	42	42	37	34	31	28	25	20	19	17	13
5	64	53	46	40	57	48	41	36	37	33	29	28	24	22	18	17	15	11
6	59	48	40	34	52	43	36	31	33	29	25	25	22	19	17	15	13	10
7	54	43	35	30	48	38	32	27	30	26	22	22	19	17	15	13	12	9
8	50	39	31	26	45	35	28	24	27	23	19	20	17	15	14	12	11	8
9	47	35	28	23	42	32	25	21	25	20	17	19	16	13	13	11	10	7
10	44	32	25	21	39	29	23	19	23	19	15	17	14	12	12	10	9	7

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	6751	6751	6751
5°	6811	6759	6724
10°	6789	6743	6707
15°	6760	6718	6681
20°	6726	6682	6633
25°	6678	6633	6557
30°	6606	6559	6466
35°	6509	6453	6360
40°	6360	6292	6179
45°	6101	5994	5872
50°	5644	5509	5400
55°	4927	4814	4713
60°	4152	4117	4036
65°	3591	3604	3578
70°	3299	3315	3315
75°	3169	3169	3190
80°	2981	3013	2981
85°	2403	2668	2668



TEST NUMBER: P564426

CATALOG NUMBER: SQ4-PR1-150U-050D-830-1D-UNV-STD-W-4

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	69.2	0.9
10°-20°	198.0	2.6
20°-30°	298.6	4.0
30°-40°	355.8	4.7
40°-50°	350.7	4.7
50°-60°	268.1	3.6
60°-70°	165.9	2.2
70°-80°	94.2	1.3
80°-90°	30.5	0.4
90°-100°	409.8	5.5
100°-110°	1108.2	14.7
110°-120°	1165.1	15.5
120°-130°	946.4	12.6
130°-140°	742.3	9.9
140°-150°	569.7	7.6
150°-160°	409.7	5.5
160°-170°	250.3	3.3
170°-180°	84.4	1.1
0°-30°	565.7	7.5
0°-40°	921.5	12.3
0°-60°	1540.3	20.5
0°-90°	1830.9	24.4
90°-120°	2683.1	35.7
90°-150°	4941.5	65.7
90°-180°	5686.0	75.6
0°-180°	7516.9	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	732	732	732	732	732	
5°	735	727	730	727	726	70
15°	708	700	703	701	700	200
25°	656	648	652	645	644	302
35°	578	571	573	565	565	361
45°	468	461	459	451	450	358
55°	306	301	299	294	293	274
65°	164	163	165	164	164	167
75°	89	89	89	90	90	94
85°	23	24	25	25	25	26
90°	2	6	12	13	12	5
95°	64	223	682	353	210	67
105°	206	318	1229	1813	1739	217
115°	363	443	1020	1974	2228	358
125°	496	569	919	1551	1822	443
135°	595	666	894	1252	1417	460
145°	692	744	882	1072	1153	433
155°	781	812	874	961	993	360
165°	851	859	878	912	917	240
175°	883	882	879	890	888	84
180°	882	882	882	882	882	



TEST NUMBER: P564426

CATALOG NUMBER: SQ4-PR1-150U-050D-830-1D-UNV-STD-W-4

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	731.7	731.7	731.7	731.7	731.7
2.5°	736.2	729.8	731.7	730.1	726.6
5°	735.4	727.4	729.8	727.2	726.0
7.5°	729.8	721.9	724.2	721.7	721.0
10°	724.7	717.3	719.7	717.1	715.9
12.5°	719.2	711.3	714.1	711.1	709.9
15°	707.7	700.3	703.3	700.8	699.5
17.5°	695.1	687.2	690.2	687.3	685.7
20°	685.0	677.6	680.6	676.2	675.6
22.5°	673.9	666.5	669.5	663.6	663.5
25°	656.0	648.0	651.6	644.7	644.1
27.5°	634.7	627.3	630.3	623.3	622.5
30°	620.1	612.7	615.7	608.1	606.9
32.5°	603.5	596.6	599.1	591.5	590.8
35°	577.9	571.1	572.9	565.3	564.7
37.5°	548.8	542.6	543.6	535.3	534.7
40°	528.1	521.9	522.4	513.6	513.0
42.5°	505.4	499.3	498.7	489.9	489.3
45°	467.6	461.4	459.4	451.2	450.0
47.5°	424.5	418.3	414.5	407.8	407.0
50°	393.2	387.1	383.8	378.1	376.2
52.5°	359.5	353.3	350.5	345.3	343.5
55°	306.3	301.3	299.3	294.3	293.0
57.5°	255.7	252.4	251.8	246.9	246.4
60°	225.0	223.1	223.1	218.7	218.7
62.5°	198.8	197.4	198.4	195.5	195.0
65°	164.5	163.3	165.1	163.9	163.9
67.5°	137.4	137.4	138.5	138.0	138.0
70°	122.3	122.3	122.9	122.9	122.9
72.5°	108.6	108.2	109.8	109.8	109.3
75°	88.9	88.9	88.9	89.5	89.5
77.5°	69.2	69.3	69.8	69.7	69.2
80°	56.1	56.7	56.7	56.1	56.1
82.5°	43.0	43.6	43.6	43.5	43.0
85°	22.7	23.9	25.2	25.2	25.2
87.5°	6.9	9.6	12.6	12.7	12.0
90°	1.9	5.6	12.3	13.3	12.3
92.5°	27.0	98.2	193.8	84.2	60.9
95°	63.6	223.3	681.6	352.7	209.8
97.5°	102.1	256.0	1062.5	879.3	645.7
100°	131.0	269.3	1180.9	1231.6	995.8
102.5°	157.6	287.7	1222.7	1498.7	1322.4
105°	206.0	318.3	1229.3	1813.4	1739.1
107.5°	250.8	353.3	1175.6	2009.7	2034.4
110°	285.7	378.6	1127.8	2062.4	2167.3



TEST NUMBER: P564426

CATALOG NUMBER: SQ4-PR1-150U-050D-830-1D-UNV-STD-W-4

CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	316.9	403.8	1083.7	2051.8	2228.0
115°	362.6	443.4	1019.6	1973.7	2228.0
117.5°	407.4	483.2	977.2	1854.3	2142.6
120°	434.8	509.0	952.2	1768.6	2062.8
122.5°	460.6	533.4	937.0	1676.8	1973.2
125°	496.5	568.9	918.9	1550.7	1821.7
127.5°	529.5	600.6	908.3	1447.8	1686.2
130°	547.7	621.1	903.7	1384.2	1599.6
132.5°	566.7	639.3	899.2	1326.9	1525.2
135°	595.2	665.8	894.2	1252.1	1417.3
137.5°	623.9	690.5	890.1	1191.4	1326.0
140°	643.6	705.8	888.5	1152.3	1272.1
142.5°	662.6	721.1	885.5	1117.1	1221.9
145°	692.0	744.0	881.9	1071.7	1153.4
147.5°	718.8	764.9	877.7	1030.7	1093.4
150°	738.6	779.4	876.2	1008.4	1058.5
152.5°	756.8	792.4	875.4	987.6	1028.9
155°	781.3	811.9	874.3	961.4	993.0
157.5°	806.7	828.1	874.5	943.1	963.9
160°	821.1	838.8	875.3	931.6	946.5
162.5°	832.5	847.2	876.0	922.4	933.5
165°	850.6	858.9	878.1	912.4	917.0
167.5°	862.9	868.7	878.3	903.8	906.0
170°	870.5	873.3	879.1	899.9	899.9
172.5°	876.6	877.1	879.1	895.4	894.6
175°	882.9	881.9	879.1	890.4	888.5
177.5°	884.9	882.7	878.9	886.4	884.2
180°	881.9	881.9	881.9	881.9	881.9

(END OF REPORT)