

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: P562278

Luminaire Tested: **SQ4-PW1-075U-100D-92765-1D-UNV-STD-W-4 (6500K)**

Issue Date: 7/30/2021

Test Information

Test Method: LM-79-2019
Report Number: P562278
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2101-105-51, 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-PW1-075U-100D-92765-1D-UNV-STD-W-4 (6500K)
Description: CORELITE SQ4 SUSPENDED LED LUMINAIRE WITH PERCEIVE WAVES CONTINUOUS LENS
DOWNLIGHT 1000 LUMENS PER FOOT
UPLIGHT 750 LUMENS PER FOOT
Light Source: 2700K/65000K CCT, 90 CRI LEDS, TUNED TO 6500K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

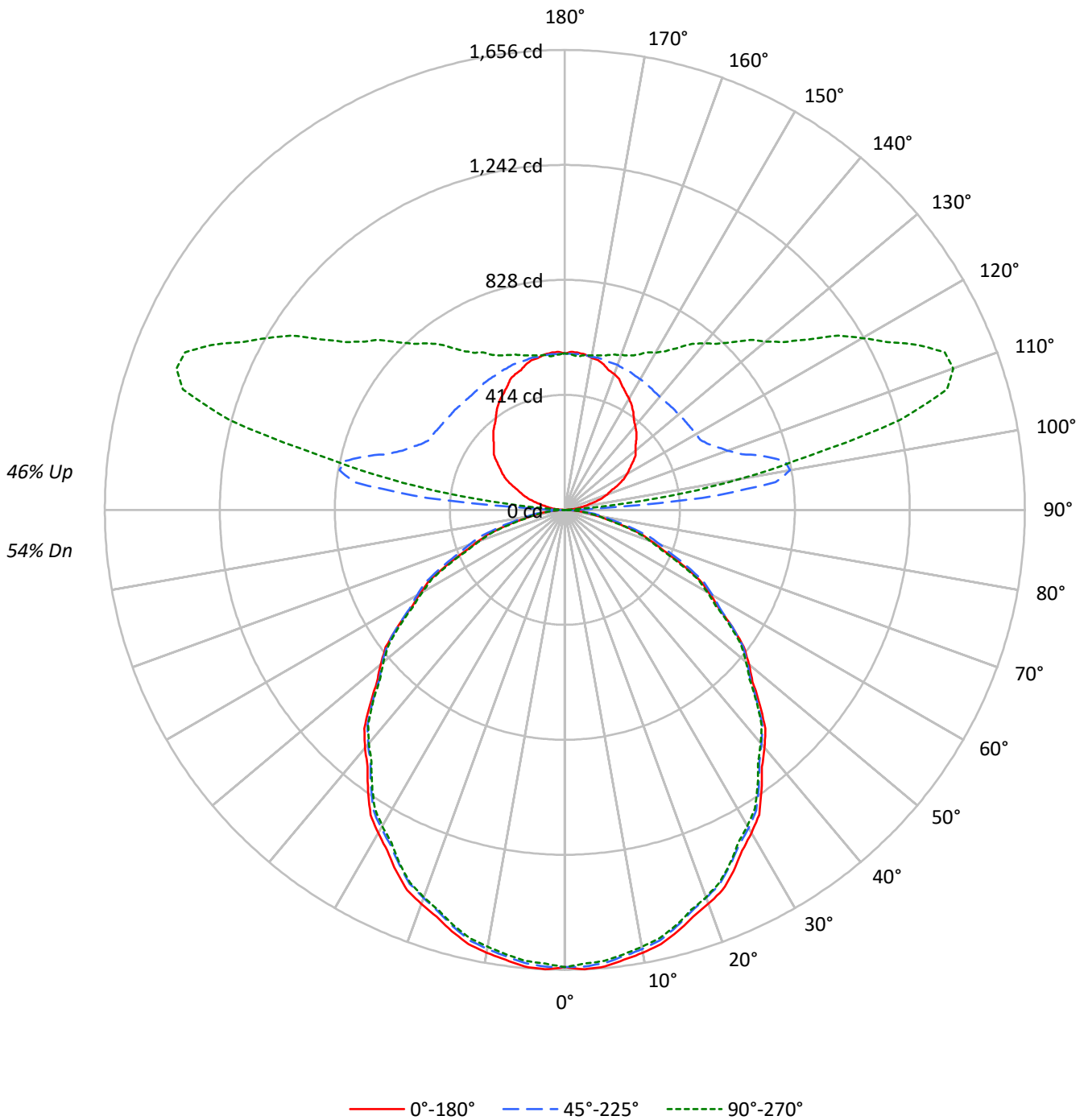
Lumens per Lamp: N/A
Luminaire Lumens: 7689.0 lumens
Efficiency: N/A
Efficacy: 117.2 lumens/watt
Spacing Criteria (0/90/45): 1.22 / 1.19 / 1.31
Luminous Opening: Rectangular (W 0.29' x L: 4' x H: 0')
CIE Type: General Diffuse

Input Watts (W): 65.6
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: P562278
CATALOG NUMBER: SQ4-PW1-075U-100D-92765-1D-UNV-STD-W-4 (6500K)

Luminous Intensity Polar Plot





TEST NUMBER: P562278

CATALOG NUMBER: SQ4-PW1-075U-100D-92765-1D-UNV-STD-W-4 (6500K)

COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

RF	20					20					20					20				
RC	80					70					50					30				
RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10	0		
RCR																				
0	108	108	108	108	100	100	100	100	86	86	86	72	72	72	60	60	60	54		
1	99	95	91	87	92	88	85	82	75	73	71	64	62	61	53	52	51	46		
2	90	83	77	71	83	77	72	67	66	62	59	56	53	51	47	45	43	39		
3	82	73	65	60	76	68	61	56	58	54	49	50	46	43	42	39	37	33		
4	75	64	57	50	70	60	53	48	52	47	42	44	40	37	37	34	32	28		
5	69	57	49	43	64	54	46	41	47	41	36	40	36	32	34	30	28	25		
6	64	52	43	38	59	48	41	36	42	36	32	36	32	28	31	27	24	22		
7	59	47	39	33	55	44	36	31	38	32	28	33	28	25	28	24	22	19		
8	55	42	35	29	51	40	33	28	35	29	25	30	26	22	26	22	19	17		
9	51	39	31	26	47	36	30	25	32	26	22	28	23	20	24	20	18	15		
10	48	35	28	23	44	33	27	22	29	24	20	26	21	18	22	19	16	14		

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	15191	15191	15191
5°	15290	15168	15102
10°	15168	15045	14963
15°	15007	14840	14785
20°	14828	14600	14571
25°	14620	14355	14310
30°	14311	14095	14002
35°	13904	13708	13627
40°	13471	13262	13209
45°	12947	12776	12720
50°	12410	12307	12223
55°	11831	11831	11644
60°	11108	11322	10922
65°	10167	10673	9913
70°	8961	9822	8727
75°	7653	8791	7447
80°	5935	7401	6014
85°	3843	5685	5071



TEST NUMBER: P562278

CATALOG NUMBER: SQ4-PW1-075U-100D-92765-1D-UNV-STD-W-4 (6500K)

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	155.0	2.0
10°-20°	437.7	5.7
20°-30°	649.3	8.4
30°-40°	759.8	9.9
40°-50°	756.4	9.8
50°-60°	653.2	8.5
60°-70°	470.2	6.1
70°-80°	246.5	3.2
80°-90°	61.1	0.8
90°-100°	256.7	3.3
100°-110°	730.5	9.5
110°-120°	699.9	9.1
120°-130°	553.9	7.2
130°-140°	444.6	5.8
140°-150°	348.1	4.5
150°-160°	254.7	3.3
160°-170°	157.8	2.1
170°-180°	53.5	0.7
0°-30°	1242.1	16.2
0°-40°	2001.9	26.0
0°-60°	3411.4	44.4
0°-90°	4189.2	54.5
90°-120°	1687.1	21.9
90°-150°	3033.8	39.5
90°-180°	3500.0	45.5
0°-180°	7689.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1646	1646	1646	1646	1646	
5°	1651	1632	1638	1633	1631	156
15°	1571	1551	1554	1551	1548	443
25°	1436	1412	1410	1402	1406	660
35°	1234	1218	1217	1206	1210	772
45°	992	984	979	976	975	766
55°	736	734	736	725	724	656
65°	466	480	489	470	454	461
75°	215	235	247	230	209	230
85°	36	48	54	51	48	48
90°	0	0	0	0	0	2
95°	28	111	497	172	106	32
105°	114	172	744	1315	1250	120
115°	211	255	564	1196	1404	208
125°	298	330	539	894	1069	267
135°	364	395	532	755	854	281
145°	430	452	537	654	712	268
155°	491	502	550	591	615	227
165°	542	544	556	568	576	152
175°	568	565	562	559	555	54
180°	563	563	563	563	563	

TEST NUMBER: P562278

CATALOG NUMBER: SQ4-PW1-075U-100D-92765-1D-UNV-STD-W-4 (6500K)

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1646.5	1646.5	1646.5	1646.5	1646.5
2.5°	1655.8	1642.2	1646.5	1642.9	1634.9
5°	1650.9	1632.4	1637.8	1633.4	1630.6
7.5°	1634.1	1617.0	1621.0	1616.3	1614.6
10°	1619.0	1602.0	1605.9	1600.0	1597.2
12.5°	1601.6	1583.4	1587.3	1581.5	1579.8
15°	1571.1	1551.2	1553.7	1550.7	1547.9
17.5°	1535.7	1515.6	1516.0	1511.3	1510.8
20°	1510.2	1488.9	1487.0	1481.2	1484.1
22.5°	1482.3	1459.9	1457.9	1449.9	1453.9
25°	1436.2	1412.1	1410.1	1401.5	1405.7
27.5°	1382.8	1359.0	1359.0	1346.9	1351.5
30°	1343.3	1320.6	1323.0	1308.7	1314.3
32.5°	1301.6	1281.1	1282.4	1268.0	1273.7
35°	1234.5	1217.5	1217.1	1205.6	1209.9
37.5°	1166.1	1151.0	1148.7	1142.0	1143.1
40°	1118.5	1105.7	1101.1	1096.7	1096.7
42.5°	1068.6	1056.9	1052.3	1049.1	1048.0
45°	992.3	983.8	979.2	976.3	974.9
47.5°	916.8	908.9	904.9	902.9	901.5
50°	864.6	858.9	857.4	853.0	851.6
52.5°	812.4	809.0	807.5	801.9	800.5
55°	735.5	734.1	735.5	725.3	723.9
57.5°	655.4	657.7	662.4	648.7	645.3
60°	602.0	607.7	613.6	597.6	591.9
62.5°	547.5	556.6	564.9	546.4	538.5
65°	465.7	479.9	488.9	469.7	454.1
67.5°	386.8	404.3	415.2	394.5	376.9
70°	332.2	352.1	364.1	343.4	323.5
72.5°	284.6	306.8	316.5	296.9	277.1
75°	214.7	234.6	246.6	230.2	208.9
77.5°	152.3	171.0	181.0	166.7	149.1
80°	111.7	131.6	139.3	127.3	113.2
82.5°	79.2	95.7	101.0	93.8	84.1
85°	36.3	47.6	53.7	50.7	47.9
87.5°	9.3	17.2	22.1	22.1	23.2
90°	0.0	0.0	0.0	0.0	0.0
92.5°	8.6	45.4	105.4	30.7	23.1
95°	27.8	110.6	497.0	172.0	106.0
97.5°	51.2	129.5	765.4	547.7	375.3
100°	67.5	140.8	823.7	834.3	642.7
102.5°	85.5	152.9	810.8	1068.0	900.6
105°	113.5	172.2	744.4	1314.9	1250.0
107.5°	142.0	194.6	666.9	1384.6	1442.4
110°	161.7	211.0	622.3	1357.9	1487.8

TEST NUMBER: P562278

CATALOG NUMBER: SQ4-PW1-075U-100D-92765-1D-UNV-STD-W-4 (6500K)

CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	180.6	227.3	592.3	1294.9	1480.1
115°	211.0	255.0	564.5	1195.8	1404.3
117.5°	237.8	279.1	548.0	1087.5	1308.3
120°	259.2	293.8	546.3	1025.6	1237.2
122.5°	276.4	310.9	542.0	971.3	1167.7
125°	297.8	330.2	538.8	894.1	1069.0
127.5°	321.1	351.5	537.1	848.0	992.1
130°	333.1	363.5	534.5	815.8	941.5
132.5°	346.0	375.5	534.5	790.8	906.4
135°	364.2	394.6	532.4	755.2	853.7
137.5°	381.3	410.9	532.1	725.2	810.2
140°	394.2	424.5	531.3	700.2	781.9
142.5°	408.7	434.1	533.9	680.3	753.6
145°	429.5	451.5	536.6	653.7	712.3
147.5°	447.3	468.7	541.4	626.7	677.4
150°	462.7	477.4	543.1	617.8	653.4
152.5°	474.7	490.2	544.8	605.7	638.8
155°	490.6	502.1	549.5	590.7	614.8
157.5°	510.3	517.2	550.6	583.9	601.1
160°	520.6	525.8	554.8	578.7	593.4
162.5°	526.6	532.6	555.7	574.4	585.7
165°	542.0	544.1	555.9	567.9	576.3
167.5°	552.5	550.6	560.8	566.3	569.6
170°	555.9	554.9	559.1	560.3	564.5
172.5°	563.6	560.1	561.7	558.6	561.9
175°	567.7	564.6	562.3	559.0	554.8
177.5°	569.4	564.4	561.7	558.3	559.1
180°	563.4	563.4	563.4	563.4	563.4

(END OF REPORT)