

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: P562277

Luminaire Tested: **SQ4-PW1-075U-100D-92765-1D-UNV-STD-W-4 (5700K)**

Issue Date: 7/30/2021

Test Information

Test Method: LM-79-2019
Report Number: P562277
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 (5700K)
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 5700K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

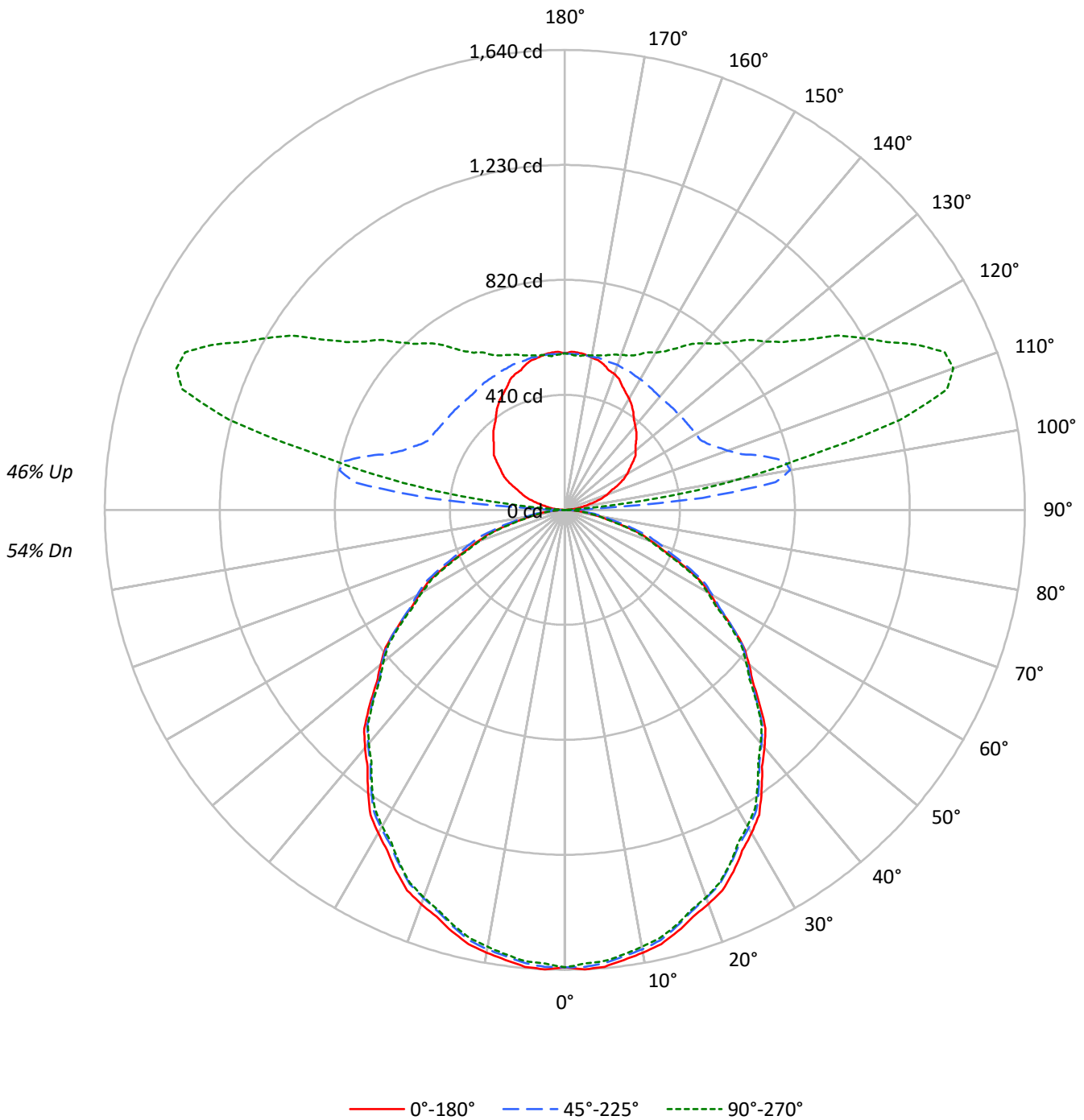
Lumens per Lamp: N/A
Luminaire Lumens: 7616.8 lumens
Efficiency: N/A
Efficacy: 115.6 lumens/watt
Spacing Criteria (0/90/45): 1.22 / 1.19 / 1.31
Luminous Opening: Rectangular (W 0.29' x L: 4' x H: 0')
CIE Type: General Diffuse

Input Watts (W): 65.9
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				
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°	15049	15049	15049
5°	15146	15026	14960
10°	15025	14903	14823
15°	14865	14701	14646
20°	14688	14462	14434
25°	14483	14219	14176
30°	14177	13962	13871
35°	13774	13580	13499
40°	13345	13136	13085
45°	12826	12656	12600
50°	12294	12190	12109
55°	11720	11720	11535
60°	11005	11217	10819
65°	10071	10573	9820
70°	8878	9730	8646
75°	7582	8709	7375
80°	5882	7332	5956
85°	3800	5632	5018



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	153.6	2.0
10°-20°	433.6	5.7
20°-30°	643.2	8.4
30°-40°	752.6	9.9
40°-50°	749.3	9.8
50°-60°	647.0	8.5
60°-70°	465.7	6.1
70°-80°	244.2	3.2
80°-90°	60.6	0.8
90°-100°	254.3	3.3
100°-110°	723.6	9.5
110°-120°	693.3	9.1
120°-130°	548.7	7.2
130°-140°	440.5	5.8
140°-150°	344.8	4.5
150°-160°	252.3	3.3
160°-170°	156.3	2.1
170°-180°	53.0	0.7
0°-30°	1230.4	16.2
0°-40°	1983.1	26.0
0°-60°	3379.3	44.4
0°-90°	4149.9	54.5
90°-120°	1671.3	21.9
90°-150°	3005.3	39.5
90°-180°	3467.0	45.5
0°-180°	7616.8	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1631	1631	1631	1631	1631	
5°	1635	1617	1622	1618	1615	155
15°	1556	1537	1539	1536	1533	439
25°	1423	1399	1397	1388	1392	654
35°	1223	1206	1206	1194	1198	764
45°	983	974	970	967	966	758
55°	729	727	729	718	717	650
65°	461	475	484	465	450	457
75°	213	232	244	228	207	228
85°	36	47	53	50	47	47
90°	0	0	0	0	0	2
95°	28	110	492	170	105	32
105°	112	171	737	1303	1238	119
115°	209	253	559	1185	1391	206
125°	295	327	534	886	1059	264
135°	361	391	527	748	846	278
145°	426	447	532	648	706	266
155°	486	497	544	585	609	225
165°	537	539	551	563	571	151
175°	562	559	557	554	550	53
180°	558	558	558	558	558	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1631.1	1631.1	1631.1	1631.1	1631.1
2.5°	1640.3	1626.8	1631.1	1627.4	1619.6
5°	1635.4	1617.1	1622.4	1618.1	1615.3
7.5°	1618.7	1601.8	1605.8	1601.1	1599.5
10°	1603.8	1586.9	1590.8	1585.0	1582.2
12.5°	1586.5	1568.5	1572.4	1566.7	1565.0
15°	1556.3	1536.7	1539.1	1536.2	1533.3
17.5°	1521.3	1501.3	1501.7	1497.1	1496.6
20°	1496.0	1474.9	1473.0	1467.3	1470.1
22.5°	1468.4	1446.2	1444.3	1436.3	1440.2
25°	1422.7	1398.8	1396.8	1388.3	1392.5
27.5°	1369.8	1346.2	1346.2	1334.3	1338.8
30°	1330.7	1308.2	1310.6	1296.4	1302.0
32.5°	1289.3	1269.1	1270.4	1256.1	1261.7
35°	1222.9	1206.1	1205.7	1194.3	1198.5
37.5°	1155.1	1140.2	1137.9	1131.3	1132.4
40°	1108.0	1095.3	1090.7	1086.4	1086.4
42.5°	1058.5	1047.0	1042.4	1039.3	1038.1
45°	983.0	974.5	970.0	967.1	965.7
47.5°	908.2	900.4	896.4	894.4	893.0
50°	856.5	850.9	849.3	845.0	843.6
52.5°	804.8	801.4	799.9	794.4	793.0
55°	728.6	727.2	728.6	718.5	717.1
57.5°	649.3	651.5	656.2	642.6	639.2
60°	596.4	602.0	607.9	591.9	586.3
62.5°	542.3	551.3	559.6	541.3	533.4
65°	461.3	475.3	484.3	465.3	449.8
67.5°	383.1	400.5	411.3	390.8	373.3
70°	329.1	348.8	360.7	340.1	320.5
72.5°	282.0	303.9	313.6	294.2	274.5
75°	212.7	232.4	244.3	228.0	206.9
77.5°	150.9	169.4	179.3	165.2	147.7
80°	110.7	130.3	138.0	126.1	112.1
82.5°	78.5	94.8	100.0	92.9	83.3
85°	35.9	47.2	53.2	50.2	47.4
87.5°	9.2	17.1	21.8	21.9	23.0
90°	0.0	0.0	0.0	0.0	0.0
92.5°	8.5	45.0	104.4	30.4	22.9
95°	27.6	109.5	492.3	170.4	105.0
97.5°	50.7	128.3	758.2	542.6	371.8
100°	66.8	139.5	816.0	826.5	636.6
102.5°	84.7	151.5	803.2	1057.9	892.1
105°	112.5	170.6	737.4	1302.6	1238.3
107.5°	140.7	192.8	660.6	1371.6	1428.8
110°	160.2	209.0	616.5	1345.2	1473.8

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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	178.9	225.2	586.8	1282.8	1466.2
115°	209.0	252.6	559.2	1184.6	1391.1
117.5°	235.6	276.4	542.8	1077.3	1296.0
120°	256.8	291.0	541.1	1016.0	1225.5
122.5°	273.8	308.0	536.9	962.1	1156.8
125°	295.0	327.1	533.7	885.7	1058.9
127.5°	318.1	348.2	532.0	840.0	982.8
130°	330.0	360.1	529.5	808.2	932.7
132.5°	342.7	372.0	529.5	783.3	897.9
135°	360.8	390.9	527.4	748.1	845.7
137.5°	377.7	407.0	527.1	718.4	802.6
140°	390.5	420.6	526.3	693.7	774.6
142.5°	404.9	430.0	528.8	673.9	746.6
145°	425.5	447.3	531.6	647.5	705.6
147.5°	443.1	464.3	536.3	620.8	671.0
150°	458.4	472.9	538.0	612.0	647.3
152.5°	470.3	485.6	539.7	600.0	632.8
155°	486.0	497.4	544.3	585.2	609.1
157.5°	505.5	512.3	545.4	578.5	595.5
160°	515.7	520.9	549.6	573.3	587.8
162.5°	521.6	527.6	550.5	569.0	580.2
165°	536.9	539.0	550.7	562.6	570.9
167.5°	547.3	545.4	555.6	561.0	564.3
170°	550.7	549.7	553.9	555.0	559.2
172.5°	558.3	554.8	556.4	553.3	556.6
175°	562.4	559.3	557.1	553.8	549.6
177.5°	564.1	559.1	556.4	553.0	553.9
180°	558.1	558.1	558.1	558.1	558.1

(END OF REPORT)