

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: P523704

Luminaire Tested: **SQ4-PP3-050U-100D-92765-1D-UNV-STD-W-4 (6500K)**

Issue Date: 5/24/2021

Test Information

Test Method: LM-79-2019
Report Number: P523704
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2101-105-51, G2-2103-172-1)
Test Lab: INNOVATION CENTER
Issue Date: 5/24/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: CORELITE
Catalog Number: SQ4-PP3-050U-100D-92765-1D-UNV-STD-W-4 (6500K)
Description: CORELITE SQ4 SUSPENDED LED LUMINAIRE WITH PERCEIVE PRISM CONTINUOUS LENS
DOWNLIGHT 1000 LUMENS PER FOOT
UPLIGHT 500 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: 6573.5 lumens
Efficiency: N/A
Efficacy: 113.7 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: Semi-Direct

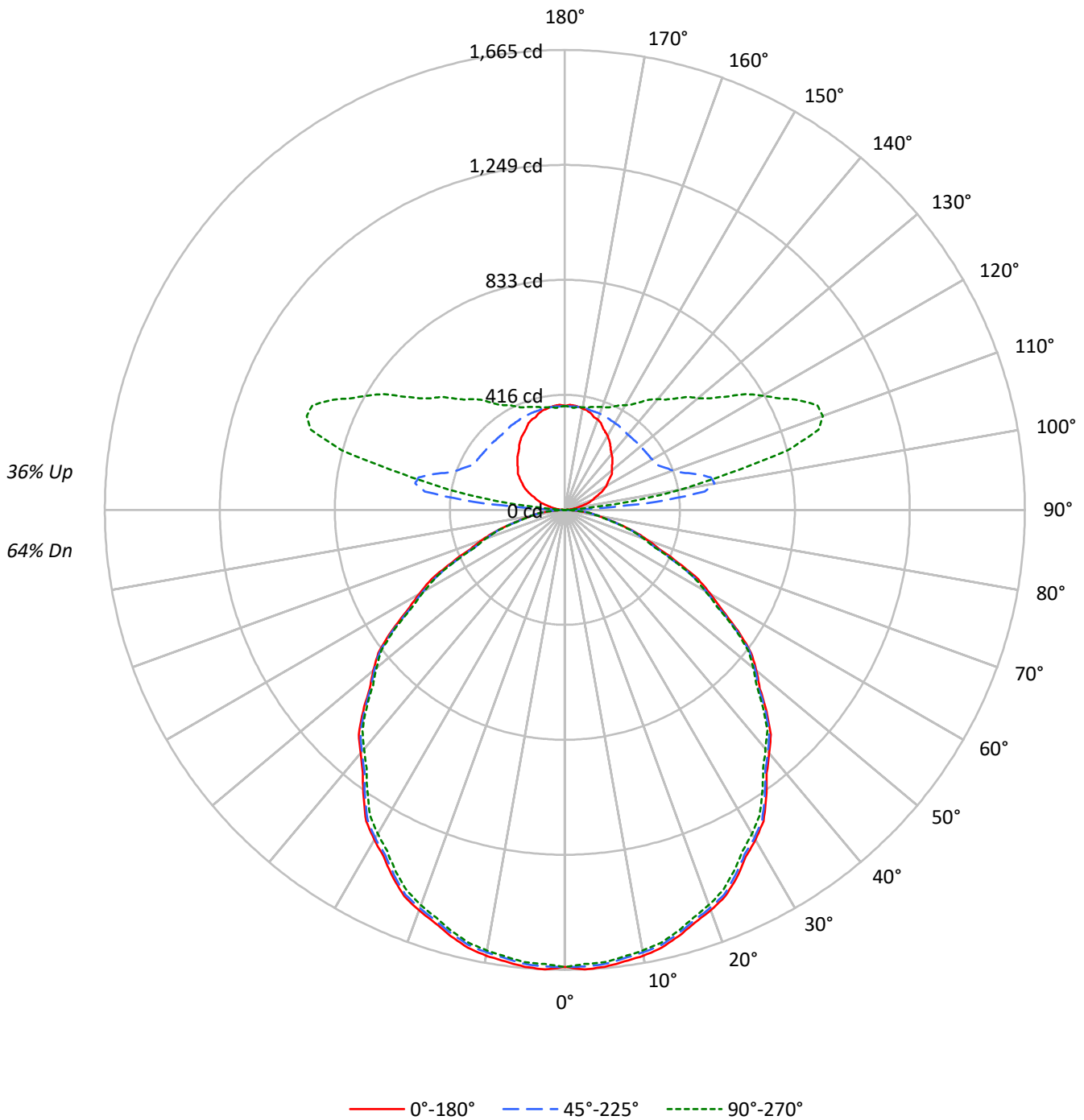
Input Watts (W): 57.8
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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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	111	111	111	111	104	104	104	104	91	91	91	80	80	80	69	69	69	64		
1	101	97	93	90	95	91	88	85	81	78	76	71	69	67	62	60	59	55		
2	92	85	79	74	87	80	75	70	71	67	63	62	59	57	55	52	50	46		
3	84	75	67	62	79	71	64	59	63	58	53	55	51	48	49	46	43	39		
4	77	66	58	52	72	63	56	50	56	50	46	49	45	41	44	40	37	34		
5	71	59	51	45	67	56	49	43	50	44	39	44	40	36	39	35	32	30		
6	66	53	45	39	61	51	43	38	45	39	35	40	35	32	36	32	29	26		
7	61	48	40	34	57	46	38	33	41	35	31	37	32	28	33	29	25	23		
8	56	44	36	31	53	42	34	29	38	32	27	34	29	25	30	26	23	21		
9	53	40	33	27	49	38	31	26	34	29	24	31	26	23	28	24	21	19		
10	49	37	30	25	46	35	28	24	32	26	22	29	24	20	26	22	19	17		

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	15268	15268	15268
5°	15380	15286	15232
10°	15354	15245	15177
15°	15252	15169	15086
20°	15152	15066	14952
25°	14972	14868	14720
30°	14694	14617	14431
35°	14310	14212	14032
40°	13852	13765	13607
45°	13473	13379	13246
50°	12990	12907	12782
55°	12318	12154	12061
60°	11214	10892	10839
65°	9879	9468	9435
70°	8530	8176	8176
75°	7340	7236	7133
80°	6471	6551	6397
85°	5071	5526	5526



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	156.5	2.4
10°-20°	446.8	6.8
20°-30°	669.3	10.2
30°-40°	785.0	11.9
40°-50°	787.4	12.0
50°-60°	671.8	10.2
60°-70°	438.1	6.7
70°-80°	219.8	3.3
80°-90°	60.8	0.9
90°-100°	171.5	2.6
100°-110°	488.0	7.4
110°-120°	467.6	7.1
120°-130°	370.1	5.6
130°-140°	297.0	4.5
140°-150°	232.5	3.5
150°-160°	170.1	2.6
160°-170°	105.4	1.6
170°-180°	35.8	0.5
0°-30°	1272.5	19.4
0°-40°	2057.5	31.3
0°-60°	3516.8	53.5
0°-90°	4235.5	64.4
90°-120°	1127.1	17.1
90°-150°	2026.7	30.8
90°-180°	2338.0	35.6
0°-180°	6573.5	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1655	1655	1655	1655	1655	
5°	1661	1645	1650	1645	1645	158
15°	1597	1581	1588	1582	1579	451
25°	1471	1454	1460	1447	1446	676
35°	1270	1258	1262	1247	1246	794
45°	1033	1026	1025	1015	1015	795
55°	766	763	756	751	750	681
65°	452	444	434	431	432	452
75°	206	206	203	202	200	223
85°	48	52	52	52	52	56
90°	0	0	0	0	0	3
95°	19	74	332	115	71	21
105°	76	115	497	878	835	80
115°	141	170	377	799	938	139
125°	199	221	360	597	714	178
135°	243	264	356	504	570	188
145°	287	302	358	437	476	179
155°	328	335	367	395	411	151
165°	362	364	371	379	385	102
175°	379	377	376	374	371	36
180°	376	376	376	376	376	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1654.8	1654.8	1654.8	1654.8	1654.8
2.5°	1665.3	1651.7	1654.8	1652.4	1645.6
5°	1660.6	1645.0	1650.5	1644.7	1644.7
7.5°	1649.3	1632.3	1637.7	1631.9	1631.6
10°	1638.9	1621.9	1627.3	1621.5	1620.0
12.5°	1623.8	1606.8	1613.4	1606.4	1606.1
15°	1596.8	1581.2	1588.1	1582.3	1579.4
17.5°	1566.4	1549.4	1557.7	1549.5	1548.4
20°	1543.2	1526.2	1534.5	1522.9	1522.9
22.5°	1515.3	1498.3	1507.8	1492.7	1492.7
25°	1470.7	1453.6	1460.5	1447.4	1446.0
27.5°	1417.6	1400.8	1408.0	1393.2	1392.9
30°	1379.3	1363.7	1372.0	1356.0	1354.6
32.5°	1337.5	1323.0	1329.1	1313.1	1311.7
35°	1270.5	1257.7	1261.8	1247.3	1245.8
37.5°	1200.0	1187.0	1191.6	1179.1	1178.6
40°	1150.1	1141.6	1142.9	1132.7	1129.8
42.5°	1103.7	1094.1	1095.3	1085.1	1084.6
45°	1032.6	1025.6	1025.4	1015.2	1015.2
47.5°	957.2	951.8	950.3	941.8	941.6
50°	905.0	900.8	899.2	891.9	890.5
52.5°	850.5	848.5	843.5	837.4	837.1
55°	765.8	762.9	755.6	751.2	749.8
57.5°	673.8	668.2	659.9	653.6	654.7
60°	607.7	602.0	590.3	587.4	587.4
62.5°	543.9	537.1	525.3	521.3	523.6
65°	452.5	444.0	433.7	430.8	432.2
67.5°	369.5	361.9	350.7	350.7	349.5
70°	316.2	311.9	303.1	303.1	303.1
72.5°	268.6	266.6	260.2	260.2	259.0
75°	205.9	205.9	203.0	201.6	200.1
77.5°	154.3	154.9	153.4	151.9	149.4
80°	121.8	124.7	123.3	121.8	120.4
82.5°	91.7	94.5	94.3	91.7	91.4
85°	47.9	52.1	52.2	52.2	52.2
87.5°	12.8	17.3	18.6	18.6	19.7
90°	0.0	0.0	0.0	0.0	0.0
92.5°	5.7	30.4	70.4	20.5	15.5
95°	18.6	73.9	332.0	114.9	70.8
97.5°	34.2	86.5	511.3	365.9	250.7
100°	45.1	94.1	550.3	557.4	429.3
102.5°	57.1	102.2	541.7	713.5	601.6
105°	75.8	115.0	497.3	878.4	835.1
107.5°	94.9	130.0	445.5	925.0	963.6
110°	108.1	140.9	415.7	907.2	993.9

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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	120.6	151.8	395.7	865.1	988.8
115°	141.0	170.4	377.1	798.9	938.1
117.5°	158.9	186.4	366.1	726.5	874.0
120°	173.2	196.3	364.9	685.1	826.5
122.5°	184.6	207.7	362.1	648.9	780.1
125°	198.9	220.6	359.9	597.3	714.1
127.5°	214.5	234.8	358.8	566.5	662.8
130°	222.5	242.8	357.1	545.0	629.0
132.5°	231.1	250.9	357.1	528.3	605.5
135°	243.3	263.6	355.6	504.5	570.3
137.5°	254.7	274.5	355.5	484.4	541.3
140°	263.3	283.6	354.9	467.8	522.4
142.5°	273.1	290.0	356.6	454.5	503.5
145°	286.9	301.6	358.5	436.7	475.8
147.5°	298.8	313.1	361.6	418.7	452.5
150°	309.1	318.9	362.8	412.7	436.5
152.5°	317.1	327.5	363.9	404.7	426.8
155°	327.7	335.4	367.1	394.6	410.7
157.5°	340.9	345.5	367.8	390.1	401.6
160°	347.8	351.3	370.7	386.6	396.4
162.5°	351.8	355.8	371.2	383.7	391.3
165°	362.1	363.5	371.4	379.4	385.0
167.5°	369.1	367.8	374.7	378.3	380.5
170°	371.4	370.7	373.5	374.3	377.1
172.5°	376.5	374.2	375.2	373.1	375.4
175°	379.2	377.1	375.7	373.5	370.7
177.5°	380.4	377.0	375.2	373.0	373.5
180°	376.4	376.4	376.4	376.4	376.4

(END OF REPORT)