

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: P561807

Luminaire Tested: **SQ4-PR1-025U-100D-92765-1D-UNV-STD-W-4 (4500K)**

Issue Date: 7/30/2021

Test Information

Test Method: LM-79-2019
Report Number: P561807
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2101-105-51, 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-PR1-025U-100D-92765-1D-UNV-STD-W-4 (4500K)
Description: CORELITE SQ4 SUSPENDED LED LUMINAIRE WITH PERCEIVE RIPPLE CONTINUOUS LENS
DOWNLIGHT 1000 LUMENS PER FOOT
UPLIGHT 250 LUMENS PER FOOT
Light Source: 2700K/65000K CCT, 90 CRI LEDS, TUNED TO 4500K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

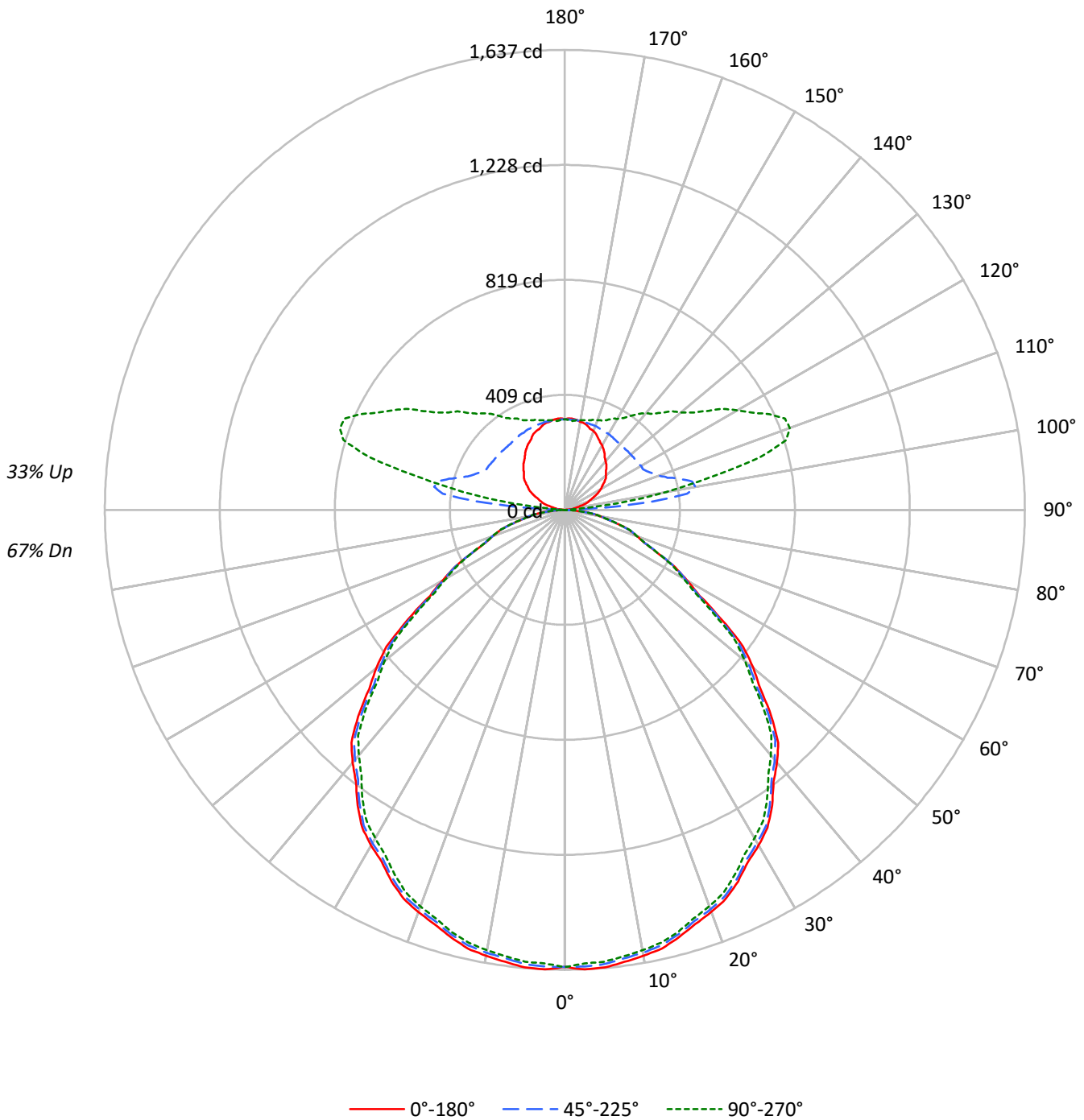
Lumens per Lamp: N/A
Luminaire Lumens: 6071.3 lumens
Efficiency: N/A
Efficacy: 107.8 lumens/watt
Spacing Criteria (0/90/45): 1.26 / 1.24 / 1.35
Luminous Opening: Rectangular (W 0.29' x L: 4' x H: 0')
CIE Type: Semi-Direct

Input Watts (W): 56.3
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



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Luminous Intensity Polar Plot





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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	50	30	10	0	
RCR																						
0	111	111	111	111	105	105	105	105	93	93	93	82	82	82	72	72	72	67				
1	102	98	94	90	96	92	89	86	82	79	77	73	71	69	64	63	61	57				
2	93	86	80	75	88	81	76	71	72	68	65	64	61	58	57	54	52	49				
3	85	76	68	63	80	72	65	60	64	59	55	57	53	50	51	48	45	42				
4	78	67	59	53	74	64	57	51	57	52	47	51	47	43	46	42	39	36				
5	72	60	52	46	68	57	50	44	51	45	41	46	41	37	41	37	34	31				
6	66	54	46	40	63	52	44	39	47	40	36	42	37	33	37	33	30	28				
7	62	49	41	35	58	47	39	34	42	36	32	38	33	29	34	30	27	25				
8	57	45	37	31	54	43	35	30	39	33	28	35	30	26	31	27	24	22				
9	53	41	33	28	50	39	32	27	36	30	25	32	27	24	29	25	22	20				
10	50	38	30	25	47	36	29	25	33	27	23	30	25	21	27	23	20	18				

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	15011	15011	15011
5°	15146	15029	14952
10°	15098	14993	14915
15°	15031	14938	14858
20°	14956	14860	14750
25°	14851	14751	14580
30°	14691	14586	14377
35°	14474	14347	14142
40°	14144	13991	13739
45°	13567	13330	13056
50°	12552	12249	12008
55°	10956	10708	10481
60°	9232	9154	8973
65°	7986	8016	7955
70°	7335	7372	7372
75°	7044	7044	7094
80°	6626	6700	6626
85°	5335	5939	5939



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	153.9	2.5
10°-20°	440.2	7.3
20°-30°	664.0	10.9
30°-40°	791.1	13.0
40°-50°	780.0	12.8
50°-60°	596.1	9.8
60°-70°	368.9	6.1
70°-80°	209.5	3.5
80°-90°	63.7	1.0
90°-100°	147.0	2.4
100°-110°	418.3	6.9
110°-120°	400.8	6.6
120°-130°	317.2	5.2
130°-140°	254.6	4.2
140°-150°	199.3	3.3
150°-160°	145.8	2.4
160°-170°	90.3	1.5
170°-180°	30.7	0.5
0°-30°	1258.0	20.7
0°-40°	2049.1	33.8
0°-60°	3425.2	56.4
0°-90°	4067.3	67.0
90°-120°	966.1	15.9
90°-150°	1737.2	28.6
90°-180°	2004.0	33.0
0°-180°	6071.3	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1627	1627	1627	1627	1627	
5°	1635	1618	1623	1617	1614	155
15°	1574	1557	1564	1558	1556	444
25°	1459	1441	1449	1434	1432	671
35°	1285	1270	1274	1257	1256	802
45°	1040	1026	1022	1003	1001	797
55°	681	670	666	654	652	610
65°	366	363	367	364	364	371
75°	198	198	198	199	199	209
85°	50	53	56	56	56	59
90°	0	0	0	0	0	3
95°	16	63	285	98	61	18
105°	65	99	426	753	716	69
115°	121	146	323	685	804	119
125°	170	189	308	512	612	153
135°	208	226	305	432	489	161
145°	246	258	307	374	408	154
155°	281	288	315	338	352	130
165°	310	312	318	325	330	87
175°	325	323	322	320	318	31
180°	323	323	323	323	323	

TEST NUMBER: P561807

CATALOG NUMBER: SQ4-PR1-025U-100D-92765-1D-UNV-STD-W-4 (4500K)

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1627.0	1627.0	1627.0	1627.0	1627.0
2.5°	1637.1	1622.8	1627.0	1623.5	1615.8
5°	1635.4	1617.6	1622.8	1617.1	1614.4
7.5°	1622.8	1605.3	1610.5	1604.8	1603.2
10°	1611.6	1595.1	1600.4	1594.7	1592.0
12.5°	1599.2	1581.7	1588.0	1581.2	1578.5
15°	1573.7	1557.3	1563.9	1558.3	1555.5
17.5°	1545.7	1528.2	1534.8	1528.3	1524.7
20°	1523.3	1506.9	1513.5	1503.6	1502.3
22.5°	1498.6	1482.2	1488.8	1475.6	1475.4
25°	1458.8	1441.0	1449.0	1433.6	1432.2
27.5°	1411.5	1395.0	1401.7	1385.9	1384.3
30°	1379.0	1362.5	1369.1	1352.3	1349.5
32.5°	1342.0	1326.6	1332.1	1315.3	1313.6
35°	1285.1	1270.0	1273.8	1257.0	1255.6
37.5°	1220.3	1206.6	1208.8	1190.3	1188.9
40°	1174.4	1160.6	1161.7	1142.1	1140.7
42.5°	1123.9	1110.2	1109.0	1089.4	1088.0
45°	1039.8	1026.1	1021.6	1003.3	1000.6
47.5°	944.0	930.3	921.8	906.9	905.0
50°	874.5	860.8	853.4	840.7	836.6
52.5°	799.3	785.6	779.4	767.9	763.7
55°	681.1	670.1	665.7	654.4	651.6
57.5°	568.7	561.3	560.0	549.0	547.9
60°	500.3	496.2	496.1	486.3	486.3
62.5°	442.0	439.0	441.2	434.7	433.6
65°	365.8	363.0	367.2	364.4	364.4
67.5°	305.5	305.5	308.0	306.9	306.9
70°	271.9	271.9	273.3	273.3	273.3
72.5°	241.6	240.5	244.1	244.1	243.0
75°	197.6	197.6	197.6	199.0	199.0
77.5°	153.9	154.1	155.3	155.0	153.9
80°	124.7	126.1	126.1	124.7	124.7
82.5°	95.6	96.9	97.0	96.7	95.6
85°	50.4	53.2	56.1	56.1	56.1
87.5°	14.6	19.0	22.4	22.4	21.3
90°	0.0	0.0	0.0	0.0	0.0
92.5°	4.9	26.0	60.4	17.6	13.2
95°	15.9	63.3	284.6	98.5	60.7
97.5°	29.3	74.2	438.3	313.6	214.9
100°	38.6	80.6	471.7	477.7	368.0
102.5°	48.9	87.6	464.3	611.5	515.7
105°	65.0	98.6	426.3	752.9	715.8
107.5°	81.3	111.4	381.9	792.8	825.9
110°	92.6	120.8	356.3	777.6	851.9

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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	103.4	130.2	339.2	741.5	847.5
115°	120.8	146.0	323.2	684.7	804.1
117.5°	136.2	159.8	313.8	622.7	749.1
120°	148.4	168.2	312.8	587.3	708.4
122.5°	158.2	178.0	310.3	556.2	668.7
125°	170.5	189.1	308.5	512.0	612.1
127.5°	183.9	201.3	307.5	485.6	568.1
130°	190.7	208.1	306.1	467.2	539.1
132.5°	198.1	215.0	306.1	452.8	519.0
135°	208.5	225.9	304.8	432.5	488.8
137.5°	218.3	235.3	304.7	415.2	463.9
140°	225.7	243.1	304.2	401.0	447.7
142.5°	234.0	248.6	305.7	389.6	431.5
145°	245.9	258.5	307.3	374.3	407.9
147.5°	256.1	268.4	310.0	358.8	387.9
150°	265.0	273.4	311.0	353.7	374.1
152.5°	271.8	280.7	311.9	346.8	365.8
155°	280.9	287.5	314.6	338.3	352.1
157.5°	292.2	296.2	315.3	334.4	344.2
160°	298.1	301.1	317.7	331.4	339.8
162.5°	301.5	305.0	318.2	328.9	335.4
165°	310.3	311.5	318.3	325.2	330.0
167.5°	316.4	315.3	321.1	324.3	326.2
170°	318.3	317.7	320.2	320.8	323.2
172.5°	322.7	320.7	321.6	319.8	321.8
175°	325.1	323.3	322.0	320.1	317.7
177.5°	326.0	323.2	321.6	319.7	320.2
180°	322.6	322.6	322.6	322.6	322.6

(END OF REPORT)