

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: P561926

Luminaire Tested: **SQ4-PR1-075U-125D-92765-1D-UNV-STD-W-4 (5700K)**

Issue Date: 7/30/2021

Test Information

Test Method: LM-79-2019
Report Number: P561926
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-PR1-075U-125D-92765-1D-UNV-STD-W-4 (5700K)
Description: CORELITE SQ4 SUSPENDED LED LUMINAIRE WITH PERCEIVE RIPPLE CONTINUOUS LENS
DOWNLIGHT 1250 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

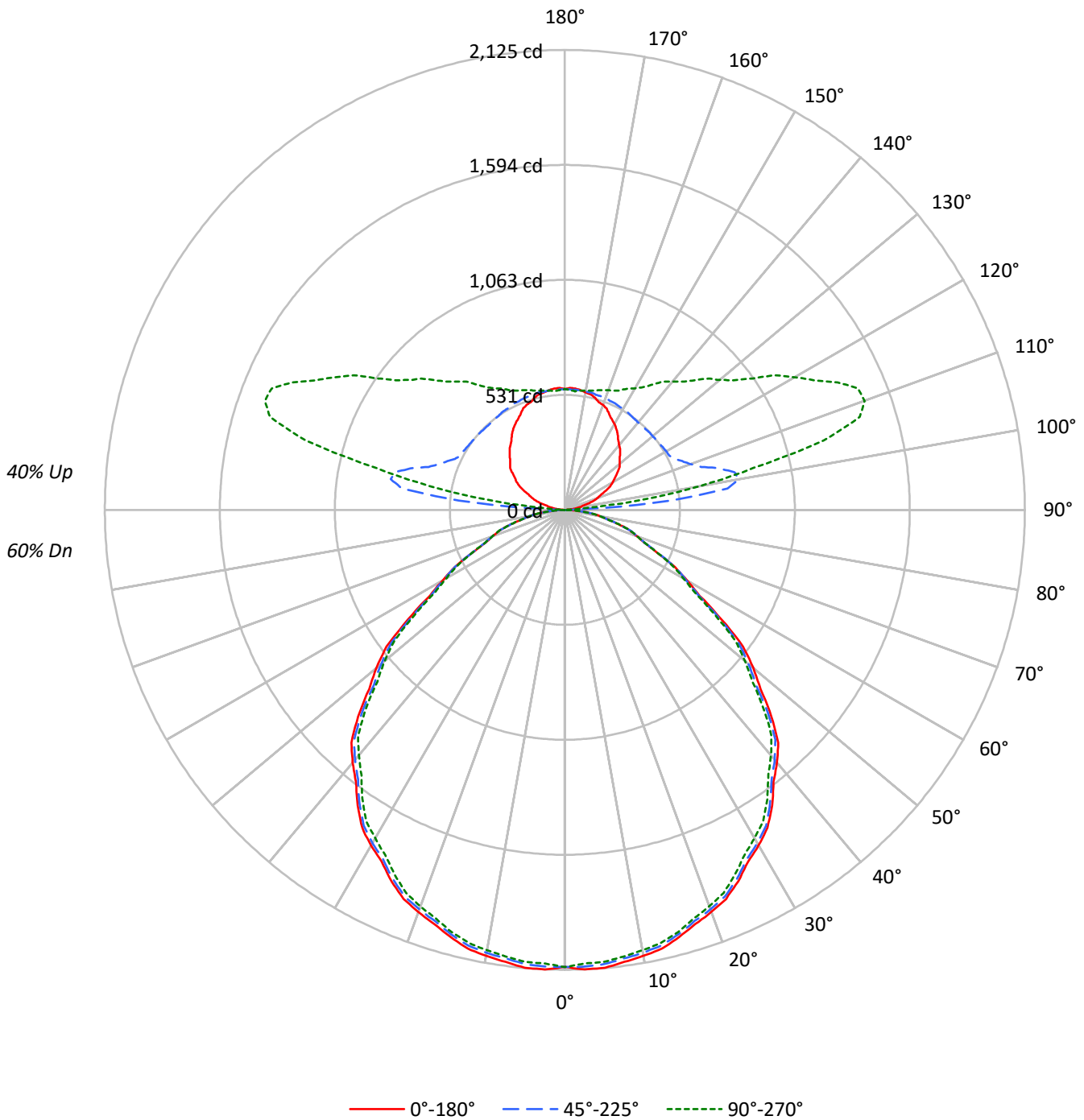
Lumens per Lamp: N/A
Luminaire Lumens: 8747.5 lumens
Efficiency: N/A
Efficacy: 110.4 lumens/watt
Spacing Criteria (0/90/45): 1.26 / 1.24 / 1.35
Luminous Opening: Rectangular (W 0.29' x L: 4' x H: 0')
CIE Type: Semi-Direct

Input Watts (W): 79.2
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	0
RCR																		
0	110	110	110	110	102	102	102	102	89	89	89	77	77	77	66	66	66	60
1	100	96	92	89	94	90	87	84	79	76	74	68	66	65	59	57	56	52
2	92	84	78	73	86	79	74	69	69	65	62	60	57	55	52	50	48	44
3	84	75	67	61	78	70	64	58	62	57	52	54	50	47	46	44	41	37
4	77	66	58	52	72	62	55	50	55	49	45	48	44	40	42	38	36	32
5	71	59	51	45	66	56	48	43	49	43	39	43	39	35	38	34	31	28
6	65	53	45	39	61	50	43	38	45	39	34	39	34	31	34	31	28	25
7	60	48	40	35	56	45	38	33	40	35	30	36	31	27	31	28	25	22
8	56	44	36	31	53	41	34	29	37	31	27	33	28	25	29	25	22	20
9	52	40	33	27	49	38	31	26	34	28	24	30	25	22	27	23	20	18
10	49	37	30	25	46	35	28	24	31	26	22	28	23	20	25	21	18	16

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	19489	19489	19489
5°	19665	19513	19412
10°	19602	19466	19364
15°	19516	19395	19291
20°	19418	19293	19150
25°	19281	19152	18930
30°	19073	18938	18666
35°	18791	18628	18361
40°	18363	18166	17837
45°	17615	17307	16950
50°	16295	15904	15591
55°	14223	13901	13608
60°	11985	11885	11649
65°	10368	10407	10326
70°	9522	9571	9571
75°	9144	9144	9211
80°	8602	8698	8602
85°	6934	7707	7707



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	199.8	2.3
10°-20°	571.5	6.5
20°-30°	862.0	9.9
30°-40°	1027.1	11.7
40°-50°	1012.6	11.6
50°-60°	773.9	8.8
60°-70°	478.9	5.5
70°-80°	272.0	3.1
80°-90°	82.8	0.9
90°-100°	254.3	2.9
100°-110°	723.6	8.3
110°-120°	693.3	7.9
120°-130°	548.7	6.3
130°-140°	440.5	5.0
140°-150°	344.8	3.9
150°-160°	252.3	2.9
160°-170°	156.3	1.8
170°-180°	53.0	0.6
0°-30°	1633.3	18.7
0°-40°	2660.4	30.4
0°-60°	4447.0	50.8
0°-90°	5280.6	60.4
90°-120°	1671.3	19.1
90°-150°	3005.3	34.4
90°-180°	3467.0	39.6
0°-180°	8747.5	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2112	2112	2112	2112	2112	
5°	2123	2100	2107	2100	2096	201
15°	2043	2022	2030	2023	2020	577
25°	1894	1871	1881	1861	1860	872
35°	1668	1649	1654	1632	1630	1041
45°	1350	1332	1326	1303	1299	1034
55°	884	870	864	850	846	792
65°	475	471	477	473	473	481
75°	256	256	256	258	258	271
85°	66	69	73	73	73	76
90°	0	0	0	0	0	4
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°	2112.4	2112.4	2112.4	2112.4	2112.4
2.5°	2125.4	2106.9	2112.4	2107.8	2097.8
5°	2123.3	2100.1	2106.9	2099.5	2096.0
7.5°	2106.9	2084.1	2090.9	2083.6	2081.4
10°	2092.3	2071.0	2077.8	2070.4	2066.9
12.5°	2076.3	2053.6	2061.8	2053.0	2049.4
15°	2043.2	2021.9	2030.5	2023.1	2019.6
17.5°	2006.8	1984.1	1992.6	1984.2	1979.5
20°	1977.7	1956.4	1965.0	1952.2	1950.4
22.5°	1945.7	1924.3	1933.0	1915.8	1915.5
25°	1894.0	1870.9	1881.3	1861.2	1859.5
27.5°	1832.5	1811.2	1819.8	1799.4	1797.2
30°	1790.3	1769.0	1777.6	1755.7	1752.1
32.5°	1742.3	1722.4	1729.5	1707.7	1705.5
35°	1668.4	1648.8	1653.9	1632.0	1630.2
37.5°	1584.4	1566.6	1569.4	1545.4	1543.6
40°	1524.7	1506.9	1508.3	1482.8	1481.0
42.5°	1459.2	1441.4	1439.9	1414.4	1412.6
45°	1350.0	1332.2	1326.4	1302.6	1299.1
47.5°	1225.6	1207.8	1196.8	1177.5	1175.0
50°	1135.3	1117.5	1108.0	1091.5	1086.2
52.5°	1037.8	1020.0	1012.0	996.9	991.6
55°	884.2	870.0	864.2	849.6	846.0
57.5°	738.3	728.7	727.0	712.8	711.4
60°	649.5	644.2	644.1	631.3	631.3
62.5°	573.8	569.9	572.8	564.4	562.9
65°	474.9	471.3	476.7	473.0	473.0
67.5°	396.6	396.6	399.9	398.5	398.5
70°	353.0	353.0	354.8	354.8	354.8
72.5°	313.7	312.2	316.9	316.9	315.5
75°	256.5	256.5	256.5	258.4	258.4
77.5°	199.8	200.1	201.6	201.2	199.8
80°	161.9	163.7	163.7	161.9	161.9
82.5°	124.1	125.9	125.9	125.5	124.1
85°	65.5	69.1	72.8	72.8	72.8
87.5°	18.9	24.6	29.1	29.1	27.7
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)