

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: P564117

Luminaire Tested: **SQ4-PR1-075U-125D-835-1D-UNV-STD-W-12**

Issue Date: 7/30/2021

Test Information

Test Method: LM-79-2019
Report Number: P564117
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1910-536-22, 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-835-1D-UNV-STD-W-12
Description: CORELITE SQ4 SUSPENDED LED LUMINAIRE WITH PERCEIVE RIPPLE CONTINUOUS LENS.
DOWNLIGHT 1250 LUMENS PER FOOT
UPLIGHT 750 LUMENS PER FOOT
Light Source: 3500K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 23513.3 lumens
Efficiency: N/A
Efficacy: 120.7 lumens/watt
Spacing Criteria (0/90/45): 1.26 / 1.24 / 1.35
Luminous Opening: Rectangular (W 0.29' x L: 12' x H: 0')
CIE Type: Semi-Direct

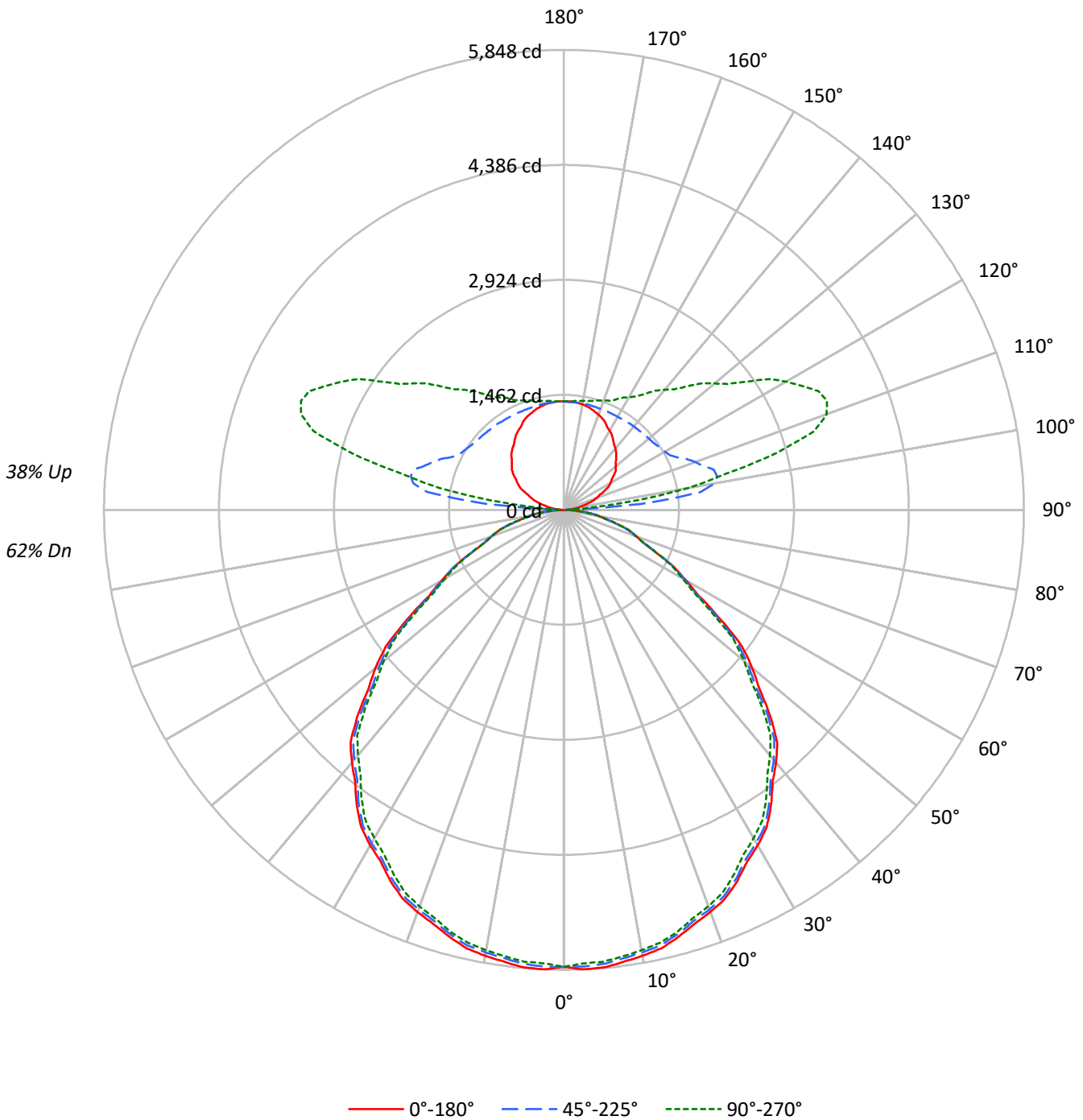
Input Watts (W): 194.8
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Luminous Intensity Polar Plot





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COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

RF	20				20				20				20				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	103	103	103	103	90	90	90	78	78	78	67	67	67	62
1	101	97	93	89	94	91	87	84	79	77	75	69	67	66	60	58	57	53
2	92	85	79	74	86	80	74	70	70	66	62	61	58	55	53	51	49	45
3	84	75	67	62	79	70	64	59	62	57	53	54	51	47	47	44	42	38
4	77	66	59	53	72	63	56	50	55	50	45	49	44	41	42	39	36	33
5	71	59	51	45	66	56	49	43	50	44	39	44	39	36	38	35	32	29
6	66	53	45	39	61	51	43	38	45	39	35	40	35	31	35	31	28	26
7	61	48	40	35	57	46	38	33	41	35	31	36	31	28	32	28	25	23
8	56	44	36	31	53	42	35	30	37	31	27	33	28	25	29	25	23	20
9	53	40	33	28	49	38	31	27	34	29	24	31	26	22	27	23	20	18
10	49	37	30	25	46	35	28	24	32	26	22	28	24	20	25	21	19	17

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	17873	17873	17873
5°	18034	17895	17802
10°	17977	17852	17758
15°	17898	17786	17691
20°	17808	17693	17562
25°	17683	17564	17360
30°	17492	17367	17118
35°	17233	17083	16839
40°	16841	16660	16358
45°	16154	15871	15545
50°	14945	14585	14298
55°	13044	12749	12481
60°	10991	10899	10684
65°	9507	9544	9471
70°	8732	8777	8777
75°	8387	8387	8446
80°	7890	7979	7890
85°	6359	7064	7064



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	549.6	2.3
10°-20°	1572.4	6.7
20°-30°	2371.7	10.1
30°-40°	2825.8	12.0
40°-50°	2786.0	11.8
50°-60°	2129.2	9.1
60°-70°	1317.6	5.6
70°-80°	748.4	3.2
80°-90°	231.2	1.0
90°-100°	650.2	2.8
100°-110°	1789.0	7.6
110°-120°	1846.5	7.9
120°-130°	1479.4	6.3
130°-140°	1162.0	4.9
140°-150°	890.5	3.8
150°-160°	640.2	2.7
160°-170°	391.5	1.7
170°-180°	132.0	0.6
0°-30°	4493.6	19.1
0°-40°	7319.5	31.1
0°-60°	12234.8	52.0
0°-90°	14532.0	61.8
90°-120°	4285.7	18.2
90°-150°	7817.7	33.2
90°-180°	8981.0	38.2
0°-180°	23513.3	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	5812	5812	5812	5812	5812	
5°	5842	5778	5797	5776	5767	554
15°	5621	5563	5586	5566	5556	1586
25°	5211	5147	5176	5121	5116	2398
35°	4590	4536	4550	4490	4485	2865
45°	3714	3665	3649	3584	3574	2845
55°	2433	2394	2378	2338	2328	2180
65°	1306	1297	1312	1302	1302	1323
75°	706	706	706	711	711	745
85°	180	190	200	200	200	210
90°	3	12	20	26	26	14
95°	97	355	1150	492	314	102
105°	320	492	1971	3002	2801	337
115°	566	690	1581	3148	3573	559
125°	780	889	1434	2426	2842	696
135°	942	1045	1393	1962	2220	727
145°	1088	1163	1373	1672	1801	682
155°	1232	1272	1364	1503	1546	566
165°	1332	1349	1370	1426	1434	375
175°	1379	1382	1373	1390	1387	131
180°	1379	1379	1379	1379	1379	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	5811.6	5811.6	5811.6	5811.6	5811.6
2.5°	5847.7	5796.8	5811.6	5799.0	5771.6
5°	5841.7	5778.1	5796.6	5776.4	5766.6
7.5°	5796.6	5734.0	5752.6	5732.4	5726.5
10°	5756.6	5697.8	5716.5	5696.3	5686.5
12.5°	5712.5	5649.9	5672.5	5648.2	5638.4
15°	5621.4	5562.7	5586.4	5566.1	5556.4
17.5°	5521.3	5458.7	5482.3	5459.0	5446.2
20°	5441.2	5382.5	5406.2	5371.0	5366.1
22.5°	5353.1	5294.4	5318.1	5271.0	5270.0
25°	5211.0	5147.3	5175.9	5120.7	5115.8
27.5°	5041.8	4983.0	5006.7	4950.5	4944.7
30°	4925.6	4866.9	4890.6	4830.3	4820.5
32.5°	4793.5	4738.7	4758.4	4698.2	4692.4
35°	4590.2	4536.4	4550.2	4490.0	4485.1
37.5°	4359.0	4310.0	4317.9	4251.8	4246.9
40°	4194.8	4145.9	4149.7	4079.6	4074.7
42.5°	4014.6	3965.6	3961.5	3891.3	3886.4
45°	3714.2	3665.3	3649.2	3583.9	3574.1
47.5°	3371.9	3322.9	3292.8	3239.5	3232.7
50°	3123.6	3074.6	3048.5	3003.1	2988.4
52.5°	2855.3	2806.3	2784.2	2742.8	2728.1
55°	2432.8	2393.6	2377.7	2337.5	2327.7
57.5°	2031.3	2004.9	2000.3	1961.2	1957.2
60°	1787.0	1772.4	1772.0	1737.0	1737.0
62.5°	1578.8	1568.0	1575.8	1552.7	1548.8
65°	1306.5	1296.7	1311.5	1301.5	1301.5
67.5°	1091.2	1091.2	1100.3	1096.3	1096.3
70°	971.1	971.1	976.1	976.1	976.1
72.5°	863.0	859.1	872.0	871.9	868.0
75°	705.8	705.8	705.8	710.8	710.8
77.5°	549.6	550.6	554.6	553.5	549.6
80°	445.5	450.4	450.5	445.5	445.5
82.5°	341.4	346.3	346.4	345.3	341.4
85°	180.2	190.0	200.2	200.2	200.2
87.5°	52.6	70.0	84.2	85.3	81.4
90°	2.9	11.5	20.5	26.4	26.4
92.5°	40.5	173.0	299.8	115.1	94.5
95°	96.8	354.9	1149.9	491.7	313.9
97.5°	157.8	393.6	1754.7	1352.0	953.9
100°	202.4	417.5	1944.8	1963.0	1601.6
102.5°	244.6	446.0	1994.1	2435.3	2103.8
105°	319.7	491.8	1971.2	3002.1	2801.3
107.5°	391.3	548.5	1859.1	3279.6	3339.3
110°	442.9	586.3	1774.6	3348.7	3555.2



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	489.9	628.7	1690.2	3304.2	3618.5
115°	566.1	689.5	1581.0	3148.3	3572.8
117.5°	638.9	752.4	1511.8	2929.5	3409.7
120°	683.5	792.4	1481.3	2765.6	3261.8
122.5°	723.4	832.3	1460.2	2621.9	3092.9
125°	780.3	889.2	1434.4	2426.5	2842.4
127.5°	834.2	938.1	1417.4	2263.4	2628.2
130°	862.4	968.5	1408.0	2166.5	2499.2
132.5°	895.2	1001.4	1400.9	2081.3	2381.8
135°	941.6	1044.8	1393.3	1962.4	2220.5
137.5°	985.0	1080.8	1386.9	1866.3	2079.1
140°	1017.9	1106.8	1384.5	1802.5	1994.6
142.5°	1046.0	1128.0	1379.8	1745.5	1910.2
145°	1088.3	1162.8	1372.8	1672.0	1801.0
147.5°	1133.4	1197.7	1369.3	1606.9	1710.1
150°	1161.6	1218.9	1366.9	1571.1	1651.4
152.5°	1187.4	1240.2	1364.6	1540.3	1606.9
155°	1232.0	1272.1	1364.0	1502.8	1545.8
157.5°	1264.3	1296.9	1364.0	1472.0	1501.8
160°	1287.7	1313.5	1364.0	1455.4	1478.4
162.5°	1306.5	1327.7	1366.3	1441.3	1459.6
165°	1331.7	1348.9	1369.8	1425.8	1434.4
167.5°	1349.3	1362.5	1372.8	1412.7	1415.0
170°	1361.0	1369.7	1372.8	1408.0	1408.0
172.5°	1370.4	1374.5	1372.8	1400.9	1398.6
175°	1378.6	1381.5	1372.8	1390.3	1387.4
177.5°	1381.0	1381.0	1371.6	1385.6	1381.0
180°	1378.6	1378.6	1378.6	1378.6	1378.6

(END OF REPORT)