

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: P564801

Luminaire Tested: **SQ4-PW1-075U-125D-935-1D-UNV-STD-W-12**

Issue Date: 7/30/2021

Test Information

Test Method: LM-79-2019
Report Number: P564801
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1910-536-22, 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-125D-935-1D-UNV-STD-W-12
Description: CORELITE SQ4 SUSPENDED LED LUMINAIRE WITH PERCEIVE WAVES CONTINUOUS LENS.
DOWNLIGHT 1250 LUMENS PER FOOT
UPLIGHT 750 LUMENS PER FOOT
Light Source: 3500K CCT, 90 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 20367.0 lumens
Efficiency: N/A
Efficacy: 104.6 lumens/watt
Spacing Criteria (0/90/45): 1.22 / 1.19 / 1.31
Luminous Opening: Rectangular (W 0.29' x L: 12' x H: 0')
CIE Type: Semi-Direct

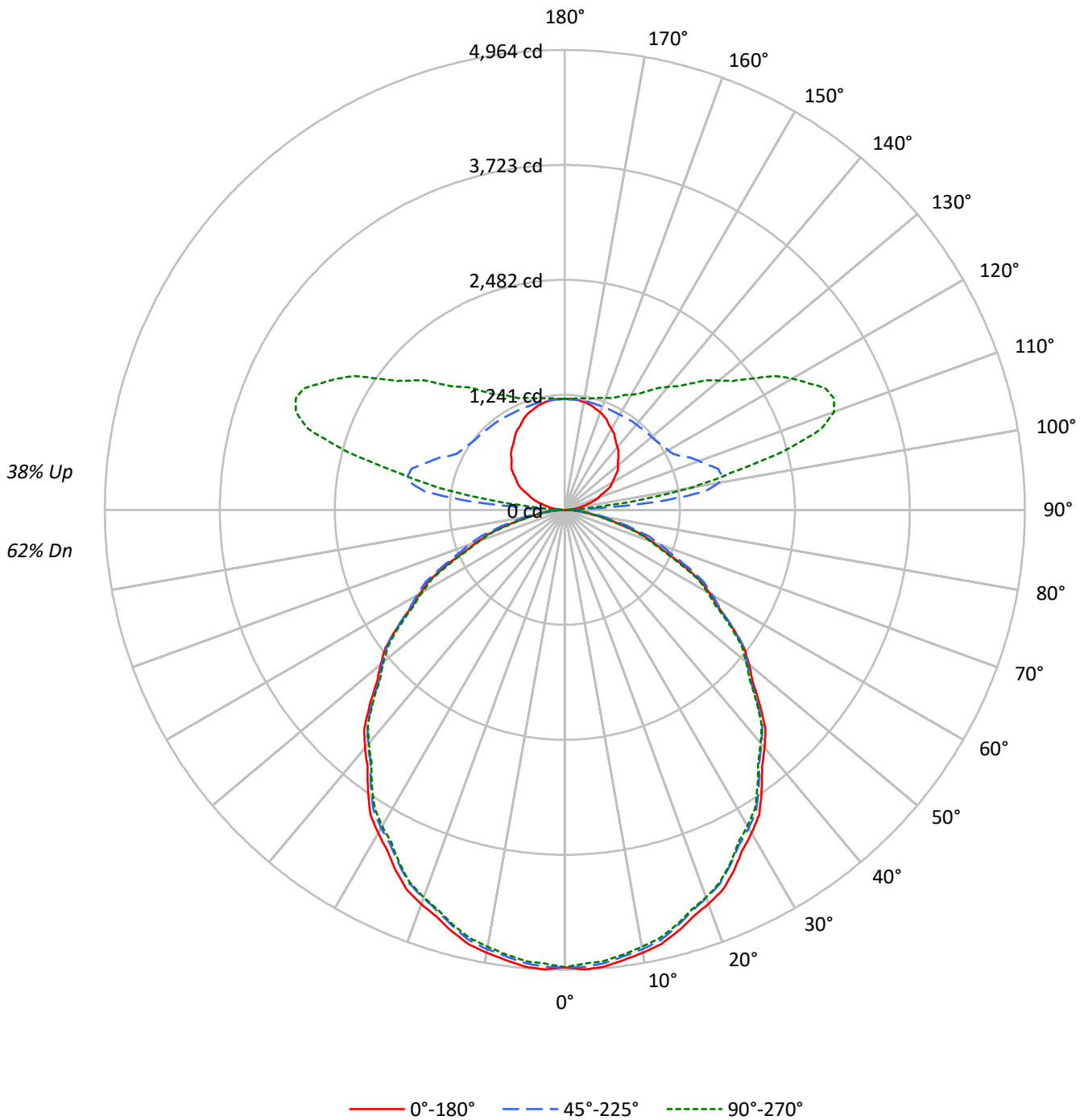
Input Watts (W): 194.8
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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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	96	92	89	94	90	87	84	79	77	74	69	67	65	59	58	57	52
2	92	84	78	73	86	79	74	69	69	65	62	61	57	55	52	50	48	44
3	84	74	67	61	78	70	63	58	61	56	52	54	50	46	46	43	41	37
4	77	66	58	51	71	62	55	49	55	49	44	48	43	40	42	38	35	32
5	70	59	50	44	66	55	48	42	49	43	38	43	38	35	37	34	31	28
6	65	53	44	38	61	50	42	37	44	38	34	39	34	30	34	30	27	24
7	60	48	39	34	56	45	38	32	40	34	30	35	31	27	31	27	24	22
8	56	43	35	30	52	41	34	29	37	31	26	32	28	24	29	25	22	19
9	52	40	32	27	49	38	31	26	34	28	24	30	25	22	26	22	20	18
10	49	36	29	24	46	35	28	23	31	25	21	28	23	20	24	21	18	16

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	15182	15182	15182
5°	15280	15159	15092
10°	15158	15036	14954
15°	14998	14832	14776
20°	14818	14591	14562
25°	14612	14346	14302
30°	14303	14086	13994
35°	13896	13700	13619
40°	13463	13253	13201
45°	12939	12769	12712
50°	12403	12298	12215
55°	11824	11824	11637
60°	11102	11316	10915
65°	10160	10667	9907
70°	8956	9816	8721
75°	7649	8786	7442
80°	5931	7394	6009
85°	3836	5678	5064



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	464.9	2.3
10°-20°	1312.4	6.4
20°-30°	1946.8	9.6
30°-40°	2277.9	11.2
40°-50°	2267.7	11.1
50°-60°	1958.3	9.6
60°-70°	1409.6	6.9
70°-80°	739.2	3.6
80°-90°	186.3	0.9
90°-100°	565.0	2.8
100°-110°	1554.4	7.6
110°-120°	1604.4	7.9
120°-130°	1285.5	6.3
130°-140°	1009.6	5.0
140°-150°	773.7	3.8
150°-160°	556.3	2.7
160°-170°	340.2	1.7
170°-180°	114.7	0.6
0°-30°	3724.1	18.3
0°-40°	6002.0	29.5
0°-60°	10228.0	50.2
0°-90°	12563.1	61.7
90°-120°	3723.8	18.3
90°-150°	6792.7	33.4
90°-180°	7804.0	38.3
0°-180°	20367.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	4937	4937	4937	4937	4937	
5°	4950	4894	4910	4897	4889	469
15°	4710	4651	4658	4649	4641	1328
25°	4306	4234	4228	4202	4215	1980
35°	3701	3650	3649	3615	3627	2314
45°	2975	2950	2936	2927	2923	2295
55°	2205	2201	2205	2175	2170	1968
65°	1396	1439	1466	1408	1361	1384
75°	644	703	739	690	626	690
85°	109	143	161	152	144	143
90°	2	10	18	23	23	9
95°	84	308	999	427	273	89
105°	278	427	1713	2608	2434	293
115°	492	599	1374	2736	3104	485
125°	678	773	1246	2108	2470	605
135°	818	908	1211	1705	1929	631
145°	946	1010	1193	1453	1565	593
155°	1070	1105	1185	1306	1343	492
165°	1157	1172	1190	1239	1246	326
175°	1198	1200	1193	1208	1206	114
180°	1198	1198	1198	1198	1198	

TEST NUMBER: P564801

CATALOG NUMBER: SQ4-PW1-075U-125D-935-1D-UNV-STD-W-12

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	4936.6	4936.6	4936.6	4936.6	4936.6
2.5°	4964.5	4923.6	4936.6	4925.6	4901.8
5°	4949.7	4894.4	4910.5	4897.3	4888.8
7.5°	4899.2	4848.2	4860.1	4846.0	4840.9
10°	4854.0	4803.0	4814.8	4797.3	4788.7
12.5°	4801.8	4747.4	4759.2	4741.7	4736.6
15°	4710.5	4650.9	4658.3	4649.4	4640.9
17.5°	4604.3	4543.9	4545.2	4531.2	4529.5
20°	4527.8	4464.0	4458.2	4441.0	4449.5
22.5°	4444.3	4377.1	4371.2	4347.1	4359.0
25°	4306.0	4233.7	4227.7	4201.9	4214.6
27.5°	4145.9	4074.4	4074.6	4038.3	4051.9
30°	4027.6	3959.5	3966.7	3923.6	3940.6
32.5°	3902.3	3841.1	3844.9	3801.8	3818.8
35°	3701.4	3650.3	3649.2	3614.7	3627.4
37.5°	3496.1	3451.0	3443.9	3424.0	3427.4
40°	3353.4	3315.2	3301.2	3288.2	3288.2
42.5°	3203.8	3168.9	3155.1	3145.4	3142.0
45°	2975.0	2949.5	2935.9	2927.1	2922.8
47.5°	2748.9	2725.0	2713.2	2707.0	2702.7
50°	2592.3	2575.3	2570.5	2557.4	2553.1
52.5°	2435.7	2425.5	2420.9	2404.3	2400.0
55°	2205.2	2200.9	2205.2	2174.6	2170.4
57.5°	1965.1	1971.9	1986.0	1944.8	1934.6
60°	1805.0	1822.0	1839.8	1791.6	1774.6
62.5°	1641.5	1668.7	1693.7	1638.3	1614.5
65°	1396.2	1438.7	1465.8	1408.2	1361.4
67.5°	1159.6	1212.3	1244.8	1182.7	1130.0
70°	996.0	1055.6	1091.7	1029.5	969.9
72.5°	853.4	919.7	949.0	890.3	830.7
75°	643.7	703.3	739.4	690.1	626.3
77.5°	456.7	512.8	542.8	499.9	447.1
80°	334.9	394.4	417.5	381.8	339.3
82.5°	237.5	286.8	302.7	281.2	252.3
85°	108.7	142.8	160.9	152.0	143.5
87.5°	28.3	53.7	69.7	70.8	74.2
90°	2.5	10.0	17.8	22.9	22.9
92.5°	35.2	150.3	260.5	100.0	82.1
95°	84.1	308.4	999.1	427.2	272.7
97.5°	137.1	342.0	1524.6	1174.7	828.8
100°	175.9	362.8	1689.8	1705.6	1391.6
102.5°	212.6	387.5	1732.6	2116.0	1827.9
105°	277.8	427.3	1712.7	2608.5	2434.0
107.5°	340.0	476.6	1615.4	2849.6	2901.5
110°	384.9	509.5	1542.0	2909.6	3089.0



TEST NUMBER: P564801

CATALOG NUMBER: SQ4-PW1-075U-125D-935-1D-UNV-STD-W-12

CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	425.6	546.3	1468.6	2871.0	3144.1
115°	491.9	599.1	1373.8	2735.5	3104.3
117.5°	555.1	653.8	1313.6	2545.5	2962.6
120°	593.9	688.6	1287.1	2403.0	2834.2
122.5°	628.5	723.2	1268.8	2278.2	2687.4
125°	678.0	772.7	1246.3	2108.4	2469.7
127.5°	724.9	815.1	1231.5	1966.7	2283.7
130°	749.3	841.5	1223.4	1882.4	2171.5
132.5°	777.9	870.1	1217.3	1808.4	2069.6
135°	818.1	907.9	1210.6	1705.1	1929.4
137.5°	855.9	939.1	1205.0	1621.6	1806.5
140°	884.4	961.7	1203.0	1566.2	1733.1
142.5°	908.9	980.1	1198.9	1516.7	1659.7
145°	945.6	1010.4	1192.8	1452.8	1564.9
147.5°	984.8	1040.6	1189.7	1396.2	1485.9
150°	1009.3	1059.1	1187.7	1365.2	1434.9
152.5°	1031.7	1077.6	1185.7	1338.4	1396.2
155°	1070.5	1105.4	1185.2	1305.8	1343.2
157.5°	1098.5	1126.9	1185.2	1279.0	1304.9
160°	1118.9	1141.3	1185.2	1264.6	1284.6
162.5°	1135.2	1153.6	1187.2	1252.3	1268.2
165°	1157.1	1172.1	1190.3	1238.8	1246.3
167.5°	1172.4	1183.9	1192.8	1227.5	1229.5
170°	1182.6	1190.1	1192.8	1223.4	1223.4
172.5°	1190.8	1194.3	1192.8	1217.2	1215.2
175°	1197.9	1200.4	1192.8	1208.0	1205.5
177.5°	1199.9	1199.9	1191.8	1203.9	1199.9
180°	1197.9	1197.9	1197.9	1197.9	1197.9

(END OF REPORT)