

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: P562785

Luminaire Tested: **SQ4-PC3-075U-125D-935-1D-UNV-STD-W-12**

Issue Date: 7/30/2021

Test Information

Test Method: LM-79-2019
Report Number: P562785
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1910-536-22, G2-2106-289-1)
Test Lab: INNOVATION CENTER
Issue Date: 7/30/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: CORELITE
Catalog Number: SQ4-PC3-075U-125D-935-1D-UNV-STD-W-12
Description: CORELITE SQ4 SUSPENDED LED LUMINAIRE WITH PERCEIVE PYRAMID CONTINUOUS LENS.
DOWNLIGHT 1250 LUMENS PER FOOT
UPLIGHT 750 LUMENS PER FOOT
Light Source: 3500K CCT, 90 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

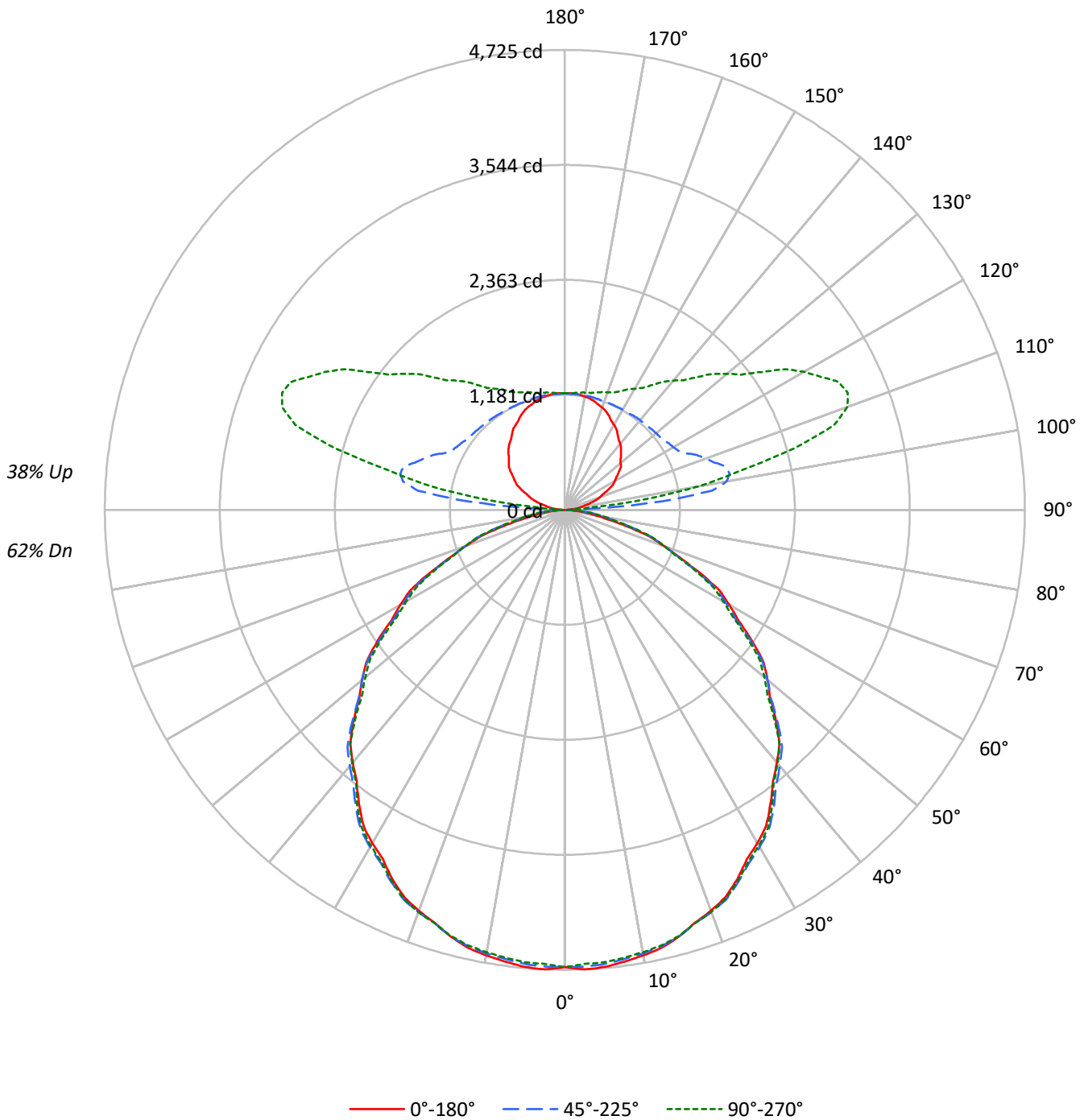
Lumens per Lamp: N/A
Luminaire Lumens: 20627.0 lumens
Efficiency: N/A
Efficacy: 105.9 lumens/watt
Spacing Criteria (0/90/45): 1.26 / 1.26 / 1.37
Luminous Opening: Rectangular (W 0.29' x L: 12' x H: 0')
CIE Type: Semi-Direct

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



TEST NUMBER: P562785
CATALOG NUMBER: SQ4-PC3-075U-125D-935-1D-UNV-STD-W-12

Luminous Intensity Polar Plot





TEST NUMBER: P562785

CATALOG NUMBER: SQ4-PC3-075U-125D-935-1D-UNV-STD-W-12

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	60	58	57	53
2	92	84	78	73	86	79	73	69	69	65	62	61	57	55	52	50	48	44
3	84	74	66	60	78	70	63	57	61	56	52	54	50	46	46	43	41	37
4	76	65	57	51	71	62	54	49	54	49	44	48	43	40	42	38	35	32
5	70	58	50	44	66	55	47	42	49	43	38	43	38	34	37	34	31	28
6	65	52	44	38	60	49	42	36	44	38	33	39	34	30	34	30	27	24
7	60	47	39	33	56	45	37	32	40	34	29	35	30	27	31	27	24	21
8	56	43	35	30	52	41	33	28	36	30	26	32	27	24	28	24	21	19
9	52	39	32	26	48	37	30	25	33	27	23	30	25	21	26	22	19	17
10	48	36	29	24	45	34	27	23	31	25	21	27	23	19	24	20	17	16

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	14446	14446	14446
5°	14555	14461	14408
10°	14520	14452	14411
15°	14444	14444	14430
20°	14348	14391	14391
25°	14213	14316	14272
30°	14040	14210	14148
35°	13831	14043	13945
40°	13602	13795	13655
45°	13355	13450	13242
50°	13006	13006	12798
55°	12593	12430	12244
60°	11985	11744	11557
65°	11078	10857	10761
70°	9700	9778	9738
75°	7804	8631	8682
80°	5547	7318	7394
85°	3377	6140	6140



TEST NUMBER: P562785

CATALOG NUMBER: SQ4-PC3-075U-125D-935-1D-UNV-STD-W-12

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	444.6	2.2
10°-20°	1275.8	6.2
20°-30°	1932.0	9.4
30°-40°	2316.2	11.2
40°-50°	2361.7	11.4
50°-60°	2061.6	10.0
60°-70°	1475.9	7.2
70°-80°	760.2	3.7
80°-90°	195.3	0.9
90°-100°	565.0	2.7
100°-110°	1554.4	7.5
110°-120°	1604.4	7.8
120°-130°	1285.5	6.2
130°-140°	1009.6	4.9
140°-150°	773.7	3.8
150°-160°	556.3	2.7
160°-170°	340.2	1.6
170°-180°	114.7	0.6
0°-30°	3652.3	17.7
0°-40°	5968.5	28.9
0°-60°	10391.8	50.4
0°-90°	12823.2	62.2
90°-120°	3723.8	18.1
90°-150°	6792.7	32.9
90°-180°	7804.0	37.8
0°-180°	20627.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	4697	4697	4697	4697	4697	
5°	4715	4668	4684	4671	4667	448
15°	4536	4498	4536	4536	4532	1279
25°	4188	4159	4219	4206	4206	1928
35°	3684	3676	3740	3714	3714	2304
45°	3071	3062	3092	3053	3045	2364
55°	2349	2319	2318	2284	2284	2094
65°	1522	1488	1492	1479	1479	1506
75°	657	686	726	731	731	710
85°	96	147	174	178	174	130
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: P562785

CATALOG NUMBER: SQ4-PC3-075U-125D-935-1D-UNV-STD-W-12

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	4697.4	4697.4	4697.4	4697.4	4697.4
2.5°	4725.2	4684.4	4697.4	4686.6	4669.6
5°	4714.8	4668.0	4684.4	4671.2	4667.0
7.5°	4680.9	4634.1	4655.6	4646.9	4642.6
10°	4649.6	4602.8	4627.8	4619.0	4614.8
12.5°	4607.8	4564.4	4593.0	4584.3	4583.4
15°	4536.5	4498.2	4536.5	4536.4	4532.1
17.5°	4446.9	4412.0	4453.0	4455.5	4453.0
20°	4384.2	4346.0	4397.3	4393.0	4397.3
22.5°	4307.7	4276.2	4331.2	4320.0	4324.2
25°	4188.5	4158.7	4219.0	4205.9	4205.9
27.5°	4047.6	4026.3	4092.0	4078.0	4078.0
30°	3953.6	3932.4	4001.5	3984.1	3984.1
32.5°	3849.3	3834.8	3900.6	3879.7	3879.7
35°	3684.0	3675.5	3740.5	3714.4	3714.4
37.5°	3513.5	3505.8	3564.8	3533.3	3523.1
40°	3388.2	3384.0	3436.1	3401.3	3401.3
42.5°	3263.0	3258.7	3303.8	3262.1	3262.1
45°	3070.7	3062.2	3092.5	3053.1	3044.6
47.5°	2861.1	2852.6	2871.5	2828.8	2824.5
50°	2718.4	2709.9	2718.4	2679.2	2674.9
52.5°	2572.3	2557.0	2558.3	2519.2	2518.3
55°	2348.7	2318.9	2318.3	2283.5	2283.5
57.5°	2112.1	2073.0	2076.4	2046.8	2042.5
60°	1948.6	1906.0	1909.4	1883.2	1879.0
62.5°	1788.5	1739.2	1749.3	1719.8	1718.9
65°	1522.3	1488.3	1491.9	1478.8	1478.8
67.5°	1266.6	1235.1	1257.9	1247.4	1246.6
70°	1078.7	1057.4	1087.4	1087.3	1083.0
72.5°	904.7	903.8	941.2	941.3	943.8
75°	656.8	686.5	726.4	730.7	730.7
77.5°	438.4	491.2	535.0	536.7	535.9
80°	313.2	372.7	413.2	421.8	417.5
82.5°	212.3	275.2	308.8	317.4	313.2
85°	95.7	146.7	174.0	178.2	174.0
87.5°	28.3	60.5	73.2	74.0	67.2
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: P562785

CATALOG NUMBER: SQ4-PC3-075U-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)