

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: P562788

Luminaire Tested: **SQ4-PC3-075U-125D-935-1D-UNV-STD-W-8**

Issue Date: 7/30/2021

Test Information

Test Method: LM-79-2019
Report Number: P562788
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-8
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

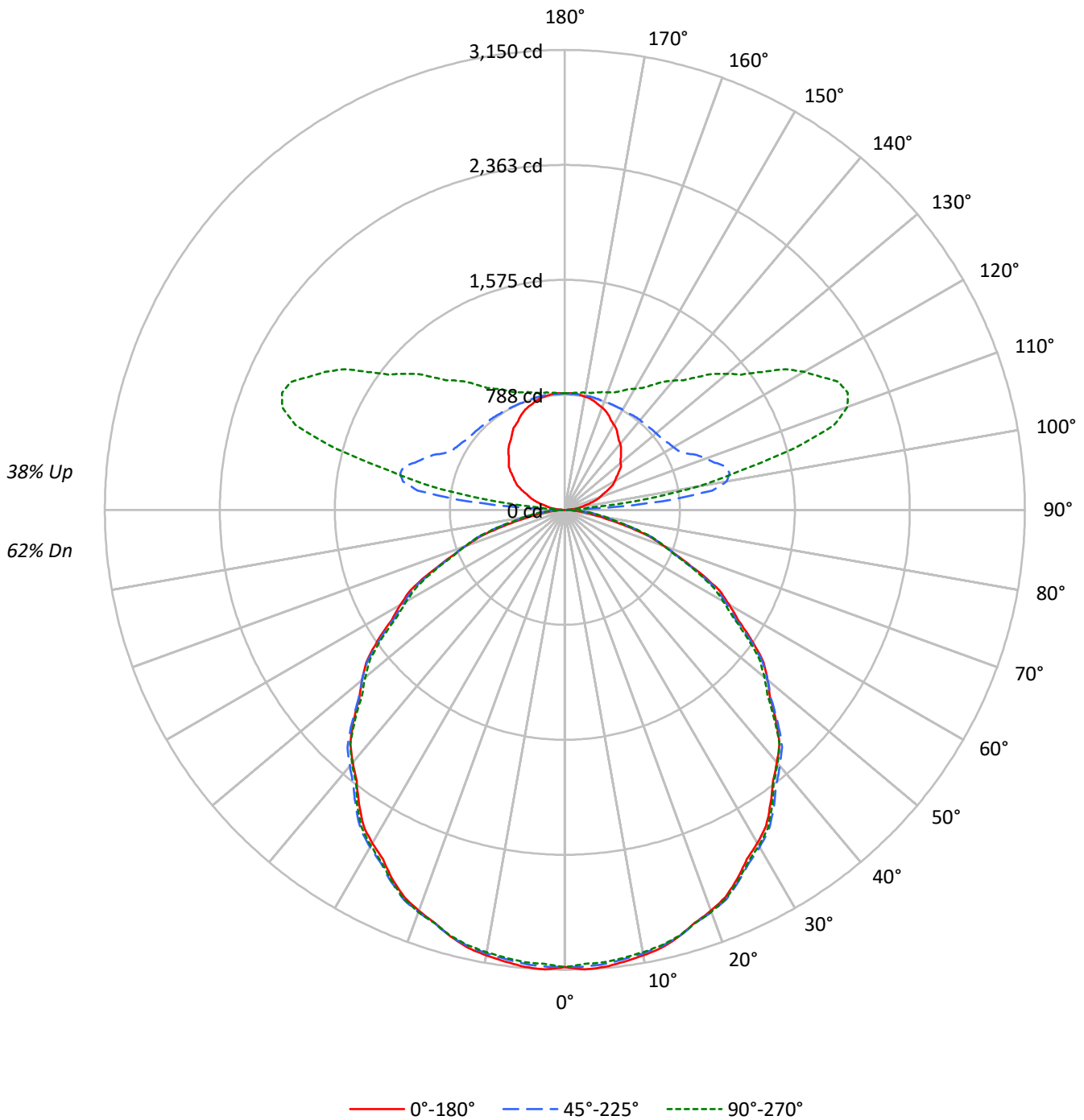
Lumens per Lamp: N/A
Luminaire Lumens: 13751.3 lumens
Efficiency: N/A
Efficacy: 107.7 lumens/watt
Spacing Criteria (0/90/45): 1.26 / 1.26 / 1.37
Luminous Opening: Rectangular (W 0.29' x L: 8' x H: 0')
CIE Type: Semi-Direct

Input Watts (W): 127.7
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: P562788
CATALOG NUMBER: SQ4-PC3-075U-125D-935-1D-UNV-STD-W-8

Luminous Intensity Polar Plot





TEST NUMBER: P562788

CATALOG NUMBER: SQ4-PC3-075U-125D-935-1D-UNV-STD-W-8

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	12243
60°	11985	11744	11557
65°	11078	10857	10762
70°	9699	9777	9738
75°	7803	8630	8682
80°	5547	7319	7396
85°	3377	6140	6140



TEST NUMBER: P562788

CATALOG NUMBER: SQ4-PC3-075U-125D-935-1D-UNV-STD-W-8

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	296.4	2.2
10°-20°	850.5	6.2
20°-30°	1288.0	9.4
30°-40°	1544.1	11.2
40°-50°	1574.5	11.4
50°-60°	1374.4	10.0
60°-70°	984.0	7.2
70°-80°	506.8	3.7
80°-90°	130.2	0.9
90°-100°	376.7	2.7
100°-110°	1036.3	7.5
110°-120°	1069.6	7.8
120°-130°	857.0	6.2
130°-140°	673.1	4.9
140°-150°	515.8	3.8
150°-160°	370.9	2.7
160°-170°	226.8	1.6
170°-180°	76.4	0.6
0°-30°	2434.8	17.7
0°-40°	3979.0	28.9
0°-60°	6927.8	50.4
0°-90°	8548.8	62.2
90°-120°	2482.6	18.1
90°-150°	4528.5	32.9
90°-180°	5203.0	37.8
0°-180°	13751.3	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	3132	3132	3132	3132	3132	
5°	3143	3112	3123	3114	3111	298
15°	3024	2999	3024	3024	3021	853
25°	2792	2772	2813	2804	2804	1285
35°	2456	2450	2494	2476	2476	1536
45°	2047	2042	2062	2035	2030	1576
55°	1566	1546	1546	1522	1522	1396
65°	1015	992	995	986	986	1004
75°	438	458	484	487	487	473
85°	64	98	116	119	116	87
90°	2	7	12	15	15	6
95°	56	206	666	285	182	59
105°	185	285	1142	1739	1623	195
115°	328	399	916	1824	2070	324
125°	452	515	831	1406	1646	403
135°	545	605	807	1137	1286	421
145°	630	674	795	968	1043	395
155°	714	737	790	870	896	328
165°	771	781	794	826	831	217
175°	799	800	795	805	804	76
180°	799	799	799	799	799	

TEST NUMBER: P562788

CATALOG NUMBER: SQ4-PC3-075U-125D-935-1D-UNV-STD-W-8

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	3131.6	3131.6	3131.6	3131.6	3131.6
2.5°	3150.2	3122.9	3131.6	3124.4	3113.0
5°	3143.2	3112.0	3122.9	3114.1	3111.3
7.5°	3120.6	3089.4	3103.8	3097.9	3095.1
10°	3099.7	3068.5	3085.2	3079.3	3076.5
12.5°	3071.9	3043.0	3062.0	3056.2	3055.6
15°	3024.3	2998.8	3024.3	3024.3	3021.4
17.5°	2964.6	2941.3	2968.6	2970.3	2968.6
20°	2922.8	2897.3	2931.5	2928.7	2931.5
22.5°	2871.8	2850.8	2887.5	2880.0	2882.8
25°	2792.3	2772.5	2812.6	2803.9	2803.9
27.5°	2698.4	2684.2	2728.0	2718.7	2718.7
30°	2635.8	2621.6	2667.7	2656.1	2656.1
32.5°	2566.2	2556.5	2600.4	2586.5	2586.5
35°	2456.0	2450.3	2493.7	2476.3	2476.3
37.5°	2342.3	2337.2	2376.5	2355.5	2348.7
40°	2258.8	2256.0	2290.7	2267.5	2267.5
42.5°	2175.3	2172.5	2202.6	2174.7	2174.7
45°	2047.1	2041.5	2061.6	2035.4	2029.7
47.5°	1907.4	1901.7	1914.3	1885.9	1883.0
50°	1812.3	1806.6	1812.3	1786.1	1783.3
52.5°	1714.8	1704.6	1705.6	1679.5	1678.9
55°	1565.8	1546.0	1545.5	1522.3	1522.3
57.5°	1408.1	1382.0	1384.3	1364.5	1361.7
60°	1299.0	1270.7	1272.9	1255.5	1252.6
62.5°	1192.3	1159.4	1166.2	1146.5	1145.9
65°	1014.9	992.2	994.6	985.9	985.9
67.5°	844.4	823.4	838.6	831.6	831.0
70°	719.1	704.9	724.9	724.8	722.0
72.5°	603.1	602.6	627.5	627.5	629.2
75°	437.8	457.7	484.2	487.1	487.1
77.5°	292.3	327.4	356.7	357.8	357.2
80°	208.8	248.5	275.5	281.2	278.4
82.5°	141.5	183.5	205.9	211.6	208.8
85°	63.8	97.8	116.0	118.8	116.0
87.5°	18.9	40.3	48.8	49.3	44.8
90°	1.7	6.7	11.9	15.3	15.3
92.5°	23.4	100.2	173.7	66.7	54.7
95°	56.1	205.6	666.1	284.8	181.8
97.5°	91.4	228.0	1016.4	783.2	552.6
100°	117.2	241.8	1126.5	1137.1	927.7
102.5°	141.7	258.3	1155.1	1410.7	1218.6
105°	185.2	284.9	1141.8	1739.0	1622.7
107.5°	226.7	317.7	1076.9	1899.8	1934.3
110°	256.6	339.6	1028.0	1939.7	2059.4

TEST NUMBER: P562788

CATALOG NUMBER: SQ4-PC3-075U-125D-935-1D-UNV-STD-W-8

CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	283.8	364.2	979.0	1914.0	2096.1
115°	327.9	399.4	915.8	1823.7	2069.6
117.5°	370.1	435.9	875.7	1697.0	1975.1
120°	395.9	459.0	858.1	1602.0	1889.5
122.5°	419.0	482.1	845.8	1518.8	1791.6
125°	452.0	515.1	830.9	1405.6	1646.5
127.5°	483.2	543.4	821.0	1311.1	1522.4
130°	499.5	561.0	815.6	1255.0	1447.7
132.5°	518.6	580.1	811.5	1205.6	1379.7
135°	545.4	605.2	807.1	1136.7	1286.3
137.5°	570.6	626.1	803.4	1081.1	1204.4
140°	589.6	641.1	802.0	1044.1	1155.4
142.5°	605.9	653.4	799.3	1011.1	1106.5
145°	630.4	673.6	795.2	968.5	1043.3
147.5°	656.6	693.8	793.2	930.8	990.6
150°	672.9	706.1	791.8	910.1	956.6
152.5°	687.8	718.4	790.4	892.2	930.8
155°	713.6	736.9	790.1	870.5	895.5
157.5°	732.3	751.3	790.1	852.7	870.0
160°	745.9	760.9	790.1	843.1	856.4
162.5°	756.8	769.1	791.5	834.9	845.5
165°	771.4	781.4	793.5	825.9	830.9
167.5°	781.6	789.2	795.2	818.3	819.7
170°	788.4	793.4	795.2	815.6	815.6
172.5°	793.8	796.2	795.2	811.5	810.2
175°	798.6	800.3	795.2	805.4	803.7
177.5°	800.0	800.0	794.5	802.6	800.0
180°	798.6	798.6	798.6	798.6	798.6

(END OF REPORT)